



Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Mon District

Bulletin No:31/2017

<i>Weather summary of the preceding week</i>	<i>Weather forecast valid upto 30th April'17</i>
<ul style="list-style-type: none"> Light rain occurred the past week Maximum and minimum temperatures ranged 27^oC to 29^oC and 13^oC to 18^oC, respectively. Relative humidity varied from 22% to 95% Wind speed ranged from 1 to 2 kmph 	<ul style="list-style-type: none"> Probability of light rain the coming week. Max temp is likely to be 26^oC - 27^oC and the min temp 18^oC to 19^oC Sky is likely to be mainly cloudy the coming week Relative Humidity is likely to range from 42% to 90%. Wind speed may reach upto 1- 2 kmph Wind direction will be mostly southerly

Field crops

General Recommendations

- As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out.
- Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear.


Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>

Horticultural crop

- In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed.
- Maintain proper sanitation –
✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals

<i>Mandarin</i>			<ul style="list-style-type: none"> During this season, single spray of bavistin (0.1%) should be done After 15 days spray the bordeaux mixture (1%)
<i>Okra</i>	Vegetative stage		<i>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</i>

			Weeding should be done and earthing up should be carried out.
Potato	Maturing stage		<ul style="list-style-type: none"> • Farmers are advised to monitor the field for the incidence of blight.
		Potato aphids	<ul style="list-style-type: none"> • Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field
		Early blight and late blight	<ul style="list-style-type: none"> • Remove the affected plant/parts and regular monitoring of field for disease should be done. • Provide proper earthing up (15cm height) to reduce the infection of tubers.
Cucurbits	Vegetative stage		<ul style="list-style-type: none"> • Spray <u>ethrel (plant growth regulator) @0.2</u> ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.
Summer vegetables	Vegetative stage		<ul style="list-style-type: none"> • For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.
Brinjal	Transplanting stage		<ul style="list-style-type: none"> • Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.
Naga king chilli	Transplanting stage	Damping off	February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.
Fruit trees			Pits for fruit plantations should be ready for May - June planting (1x1x1) m ³ pit size.
Mango		Mango hopper	In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.
Livestock			
Poultry	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managerial practices due to its adaptability and local climatic conditions. • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease 		

	<i>Piggery</i>	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
 <p>भारतीय ICAR</p>	<i>Fishery</i>	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
2	Dr. L.K. Baishya	Senior Scientist	Agronomy	lkbicar@gmail.com
3	Ph. Romen Sharma	Scientist	Agricultural Extension	romen.agext@gmail.com
4	Dr. Rajesha G	Scientist	Plant Pathology	rajeshag337@gmail.com
5	Dr. Mahak Singh	Scientist	Animal Reproduction & Gynaecology	mahaksinghivri@gmail.com
6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com




Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Peren District

Bulletin No:31/2017

<i>Weather summary of the preceding week</i>			<i>Weather forecast valid upto 30th April'17</i>
<ul style="list-style-type: none"> Light rain occurred the past week Maximum and minimum temperatures ranged 26⁰C to 31⁰C and 16⁰C to 18⁰C, respectively. Relative humidity varied from 17% to 95%. Wind speed ranged from 1 to 2 kmph 			<ul style="list-style-type: none"> Probability of light rain the coming week. Max temp is likely to be 29⁰C - 30⁰C and the min temp 19⁰C to 20⁰C Sky is likely to be clear the coming week Relative Humidity is likely to range from 41% to 90%. Wind speed may reach upto 1- 2 kmph Wind direction will be mostly southerly
<i>Field crops</i>			
General Recommendations <ul style="list-style-type: none"> As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out. Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear. 			
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>
<i>Horticultural crop</i>			
<ul style="list-style-type: none"> In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed. Maintain proper sanitation – <ul style="list-style-type: none"> ✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals 			

	Mandarin			<ul style="list-style-type: none"> • During this season, single spray of bavistin (0.1%) should be done • After 15 days spray the bordeaux mixture (1%)
	Okra	Vegetative stage		<p>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</p> <p>Weeding should be done and earthing up should be carried out.</p>
	Potato	Maturing stage		<ul style="list-style-type: none"> • Farmers are advised to monitor the field for the incidence of blight.
			Potato aphids	<ul style="list-style-type: none"> • Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field
			Early blight and late blight	<ul style="list-style-type: none"> • Remove the affected plant/parts and regular monitoring of field for disease should be done. • Provide proper earthing up (15cm height) to reduce the infection of tubers.
	Cucurbits	Vegetative stage		<ul style="list-style-type: none"> • Spray <u>ethrel (plant growth regulator) @0.2</u> ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.
	Summer vegetables	Vegetative stage		<ul style="list-style-type: none"> • For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.
	Brinjal	Transplanting stage		<ul style="list-style-type: none"> • Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.
	Naga king chilli	Transplanting stage	Damping off	<p>February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.</p>
	Fruit trees			<p>Pits for fruit plantations should be ready for May - June planting (1x1x1) m³ pit size.</p>
	Mango		Mango hopper	<p>In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.</p>
Livestock				

	<i>Poultry</i>	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managemental practices due to its adaptability and local climatic conditions. • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
 <p>भारतीय ICAR</p>	<i>Piggery</i>	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
	<i>Fishery</i>	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Phek District

Bulletin No:31/2017

Weather summary of the preceding week

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 25⁰C to 31⁰C and 11⁰C to 18⁰C, respectively.
- Relative humidity varied from 17% to 95%.
- Wind speed ranged from 1 to 2 kmph

Weather forecast valid upto 30th April'17

- Probability of light rain the coming week.
- **Max temp** is likely to be 26⁰C - 30⁰C and the **min temp** 18⁰C to 20⁰C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 30% to 88%.
- **Wind speed** may reach upto 2- 4 kmph
Wind direction will be mostly southerly

Field crops

General Recommendations


- As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out.
- Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear.

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>

Horticultural crop

- In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed.
- Maintain proper sanitation –

✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals			
Mandarin			<ul style="list-style-type: none"> • During this season, single spray of bavistin (0.1%) should be done • After 15 days spray the bordeaux mixture (1%)
Okra	Vegetative stage		<p>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</p> <p>Weeding should be done and earthing up should be carried out.</p>
Potato	Maturing stage		<ul style="list-style-type: none"> • Farmers are advised to monitor the field for the incidence of blight.
		Potato aphids	Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field
		Early blight and late blight	<ul style="list-style-type: none"> • Remove the affected plant/parts and regular monitoring of field for disease should be done. • Provide proper earthing up (15cm height) to reduce the infection of tubers.
Cucurbits	Vegetative stage		<ul style="list-style-type: none"> • Spray <u>ethrel (plant growth regulator) @0.2</u> ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.
Summer vegetables	Vegetative stage		<ul style="list-style-type: none"> • For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.
Brinjal	Transplanting stage		<ul style="list-style-type: none"> • Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.
Naga king chilli	Transplanting stage	Damping off	February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.
Fruit trees			Pits for fruit plantations should be ready for May - June planting (1x1x1) m ³ pit size.
Mango		Mango hopper	In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.
Livestock			

	Poultry	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managerial practices due to its adaptability and local climatic conditions. • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
	Piggery	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
	Fishery	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Tuensang District

Bulletin No:31/2017

Weather summary of the preceding week

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 25⁰C to 31⁰C and 12⁰C to 19⁰C, respectively.
- Relative humidity varied from 29% to 91%.
- Wind speed ranged from 1 to 2 kmph

Weather forecast valid upto 30th April'17

- Probability of light rain the coming week.
- **Max temp** is likely to be 26⁰C - 28⁰C and the **min temp** 18⁰C to 20⁰C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 30% to 85%.
- **Wind speed** may reach upto 1 - 2 kmph
- **Wind direction** will be mostly southerly

Field crops

General Recommendations

- As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out.
- Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear.

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>


Horticultural crop

- In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed.
- Maintain proper sanitation –
 - ✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals

Mandarin

- *During this season, single spray of bavistin (0.1%) should be done*

				<ul style="list-style-type: none"> • After 15 days spray the bordeaux mixture (1%)
Okra	Vegetative stage			<p>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</p> <p>Weeding should be done and earthing up should be carried out.</p>
Potato	Maturing stage			<ul style="list-style-type: none"> • Farmers are advised to monitor the field for the incidence of blight.
		Potato aphids		<p>Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field</p>
		Early blight and late blight		<ul style="list-style-type: none"> • Remove the affected plant/parts and regular monitoring of field for disease should be done. • Provide proper earthing up (15cm height) to reduce the infection of tubers.
Cucurbits	Vegetative stage			<ul style="list-style-type: none"> • Spray <u>ethrel (plant growth regulator)</u> @0.2 ml in l lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.
Summer vegetables	Vegetative stage			<ul style="list-style-type: none"> • For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.
Brinjal	Transplanting stage			<ul style="list-style-type: none"> • Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.
Naga king chilli	Transplanting stage	Damping off		<p>February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.</p>
Fruit trees				<p>Pits for fruit plantations should be ready for May - June planting (1x1x1 m³ pit size.</p>
Mango		Mango hopper		<p>In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.</p>
Livestock				
Poultry	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low 			

		feeding and managemental practices due to its adaptability and local climatic conditions. <ul style="list-style-type: none"> • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
	Piggery	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
	Fishery	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

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Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Wokha District

Bulletin No:31/2017

Weather summary of the preceding week

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 25⁰C to 30⁰C and 11⁰C to 20⁰C, respectively.
- Relative humidity varied from 16% to 94%.
- Wind speed ranged from 2 to 4 kmph

Weather forecast valid upto 30th April'17

- Probability of light rain the coming week.
- **Max temp** is likely to be 26⁰C - 28⁰C and the **min temp** 18⁰C to 19⁰C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 36% to 90%.
- **Wind speed** may reach upto 2- 4 kmph
- **Wind direction** will be mostly southeasterly

Field crops

General Recommendations

- As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out.
- Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear.

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>


Horticultural crop

- In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed.
- Maintain proper sanitation –
 - ✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals

Mandarin

- *During this season, single spray of bavistin (0.1%) should be done*
- *After 15 days spray the bordeaux mixture (1%)*

	Okra	Vegetative stage		<p><i>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</i></p> <p><i>Weeding should be done and earthing up should be carried out.</i></p>
	Potato	Maturing stage		<ul style="list-style-type: none"> • <i>Farmers are advised to monitor the field for the incidence of blight.</i>
			Potato aphids	<p><i>Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field</i></p>
			Early blight and late blight	<ul style="list-style-type: none"> • <i>Remove the affected plant/parts and regular monitoring of field for disease should be done.</i> • <i>Provide proper earthing up (15cm height) to reduce the infection of tubers.</i>
	Cucurbits	Vegetative stage		<ul style="list-style-type: none"> • <i>Spray <u>ethrel (plant growth regulator)</u> @0.2 ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.</i>
	Summer vegetables	Vegetative stage		<ul style="list-style-type: none"> • <i>For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.</i>
	Brinjal	Transplanting stage		<ul style="list-style-type: none"> • <i>Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.</i>
	Naga king chilli	Transplanting stage	Damping off	<p><i>February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.</i></p>
	Fruit trees			<p><i>Pits for fruit plantations should be ready for May - June planting (1x1x1) m³ pit size.</i></p>
	Mango		Mango hopper	<p><i>In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.</i></p>
Livestock				
	Poultry	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managerial practices due to its adaptability and local climatic conditions. 		

		<ul style="list-style-type: none"> • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
	Piggery	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
	Fishery	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
2	Dr. L.K. Baishya	Senior Scientist	Agronomy	lkbicar@gmail.com
3	Ph. Romen Sharma	Scientist	Agricultural Extension	romen.agext@gmail.com
4	Dr. Rajesha G	Scientist	Plant Pathology	rajeshag337@gmail.com
5	Dr. Mahak Singh	Scientist	Animal Reproduction & Gynaecology	mahaksinghivri@gmail.com
6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



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Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Zunheboto District

Bulletin No:31/2017

<i>Weather summary of the preceding week</i>			<i>Weather forecast valid upto 30th April'17</i>
<ul style="list-style-type: none"> Light rain occurred the past week Maximum and minimum temperatures ranged 24⁰C to 31⁰C and 11⁰C to 19⁰C, respectively. Relative humidity varied from 29% to 93%. Wind speed ranged from 1 to 2 kmph 			<ul style="list-style-type: none"> Probability of light rain the coming week. Max temp is likely to be 26⁰C - 29⁰C and the min temp 18⁰C to 20⁰C Sky is likely to be clear the coming week Relative Humidity is likely to range from 33% to 89%. Wind speed may reach upto 1- 3 kmph Wind direction will be mostly southeasterly
<i>Field crops</i>			
General Recommendations <ul style="list-style-type: none"> As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out. Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear. 			
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>
<i>Horticultural crop</i>			
<ul style="list-style-type: none"> In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed. Maintain proper sanitation – <ul style="list-style-type: none"> ✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals 			
<i>Mandarin</i>			<ul style="list-style-type: none"> During this season, single spray of bavistin (0.1%) should be done

				<ul style="list-style-type: none"> • After 15 days spray the bordeaux mixture (1%)
Okra	Vegetative stage			<p>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</p> <p>Weeding should be done and earthing up should be carried out.</p>
Potato	Maturing stage			<ul style="list-style-type: none"> • Farmers are advised to monitor the field for the incidence of blight.
		Potato aphids		<ul style="list-style-type: none"> • Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field
		Early blight and late blight		<ul style="list-style-type: none"> • Remove the affected plant/parts and regular monitoring of field for disease should be done. • Provide proper earthing up (15cm height) to reduce the infection of tubers.
Cucurbits	Vegetative stage			<ul style="list-style-type: none"> • Spray <u>ethrel (plant growth regulator)</u> @0.2 ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.
Summer vegetables	Vegetative stage			<ul style="list-style-type: none"> • For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.
Brinjal	Transplanting stage			<ul style="list-style-type: none"> • Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.
Naga king chilli	Transplanting stage	Damping off		<p>February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.</p>
Fruit trees				<p>Pits for fruit plantations should be ready for May - June planting (1x1x1) m³ pit size.</p>
Mango		Mango hopper		<p>In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.</p>
Livestock				

	<i>Poultry</i>	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managemental practices due to its adaptability and local climatic conditions. • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
	<i>Piggery</i>	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
 <p>भारतीय ICAR</p>	<i>Fishery</i>	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

SCIENTIFIC EXPERT COMMITTEE

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6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com




Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Dimapur District

Bulletin No:31/2017

Weather summary of the preceding week			Weather forecast valid upto 30 th April'17
<ul style="list-style-type: none"> Light rain occurred the past week Maximum and minimum temperatures ranged 29⁰C to 31⁰C and 15⁰C to 17⁰C, respectively. Relative humidity varied from 17% to 94%. Wind speed ranged from 3 to 4 kmph 			<ul style="list-style-type: none"> Probability of light rain the coming week. Max temp is likely to be 26⁰C - 30⁰C and the min temp 18⁰C to 20⁰C Sky is likely to be clear the coming week Relative Humidity is likely to range from 36% to 92%. Wind speed may reach upto 2- 4 kmph Wind direction will be mostly southeasterly
Field crops			
General Recommendations <ul style="list-style-type: none"> As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out. Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear. 			
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>
Horticultural crop			
<ul style="list-style-type: none"> In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed. Maintain proper sanitation – <ul style="list-style-type: none"> ✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals 			
<i>Mandarin</i>			<ul style="list-style-type: none"> During this season, single spray of bavistin (0.1%) should be done After 15 days spray the bordeaux mixture (1%)

	Okra	Vegetative stage		<p><i>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</i></p> <p><i>Weeding should be done and earthing up should be carried out.</i></p>
	Potato	Maturing stage		<ul style="list-style-type: none"> • <i>Farmers are advised to monitor the field for the incidence of blight.</i>
	Cucurbits		Potato aphids	<ul style="list-style-type: none"> • <i>Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field</i>
			Early blight and late blight	<ul style="list-style-type: none"> • <i>Remove the affected plant/parts and regular monitoring of field for disease should be done.</i> • <i>Provide proper earthing up (15cm height) to reduce the infection of tubers.</i>
		Vegetative stage		<ul style="list-style-type: none"> • <i>Spray <u>ethrel (plant growth regulator) @0.2</u> ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.</i> •
	Summer vegetables	Vegetative stage		<ul style="list-style-type: none"> • <i>For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.</i>
	Brinjal	Transplanting stage		<ul style="list-style-type: none"> • <i>Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.</i>
	Naga king chilli	Transplanting stage	Damping off	<p><i>February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.</i></p>
	Fruit trees			<p><i>Pits for fruit plantations should be ready for May - June planting (1x1x1) m³ pit size.</i></p>
	Mango		Mango hopper	<p><i>In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.</i></p>
Livestock				

	<i>Poultry</i>	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managemental practices due to its adaptability and local climatic conditions. • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
	<i>Piggery</i>	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
 <p>भारत सरकार ICAR</p>	<i>Fishery</i>	<ul style="list-style-type: none"> • Prepare the pond • Apply lime and organic manure in case of pond filled with water • Remove aquatic weeds if infested • Small ponds can be made ready for nursery rearing

SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
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3	Ph. Romen Sharma	Scientist	Agricultural Extension	romen.agext@gmail.com
4	Dr. Rajesha G	Scientist	Plant Pathology	rajeshag337@gmail.com
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6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com




Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Kohima District

Bulletin No:31/2017

<i>Weather summary of the preceding week</i>			<i>Weather forecast valid upto 30th April'17</i>
<ul style="list-style-type: none"> Light rain occurred the past week Maximum and minimum temperatures ranged 24^oC to 30^oC and 11^oC to 14^oC, respectively. Relative humidity varied from 17% to 90%. Wind speed ranged from 1 to 2 kmph 			<ul style="list-style-type: none"> Probability of light rain the coming week. Max temp is likely to be 24^oC - 30^oC and the min temp 18^oC to 19^oC Sky is likely to be clear the coming week Relative Humidity is likely to range from 40% to 95%. Wind speed may reach upto 1- 2 kmph Wind direction will be southerly
<i>Field crops</i>			
<i>General Recommendations</i>			
<ul style="list-style-type: none"> As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out. Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear. 			
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum paddy</i>	Vegetative stage	Blast	<i>Maintain field sanitation and adopt clean cultivation</i>
<i>TRC/WRC paddy</i>			<i>Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.</i>
<i>Summer maize</i>	Vegetative stage		<i>Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.</i>
<i>Green gram</i>	Vegetative stage		<i>Clean cultivation should be maintained</i>
<i>Horticultural crop</i>			
<ul style="list-style-type: none"> In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed. Maintain proper sanitation – <ul style="list-style-type: none"> ✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals 			
<i>Mandarin</i>			<ul style="list-style-type: none"> <i>During this season, single spray of bavistin (0.1%) should be done</i> <i>After 15 days spray the bordeaux mixture (1%)</i>

	Okra	Vegetative stage		<p>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</p> <p>Weeding should be done and earthing up should be carried out.</p>
	Potato	Maturing stage		<ul style="list-style-type: none"> • Farmers are advised to monitor the field for the incidence of blight.
			Potato aphids	<ul style="list-style-type: none"> • Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field
			Early blight and late blight	<ul style="list-style-type: none"> • Remove the affected plant/parts and regular monitoring of field for disease should be done. • Provide proper earthing up (15cm height) to reduce the infection of tubers.
	Cucurbits	Vegetative stage		<ul style="list-style-type: none"> • Spray <i>ethrel (plant growth regulator)</i> @0.2 ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.
	Summer vegetables	Vegetative stage		<ul style="list-style-type: none"> • For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.
	Brinjal	Transplanting stage		<ul style="list-style-type: none"> • Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.
	Naga king chilli	Transplanting stage	Damping off	<p>February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.</p>
	Fruit trees			<p>Pits for fruit plantations should be ready for May - June planting (1x1x1 m³ pit size).</p>
	Mango		Mango hopper	<p>In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.</p>
Livestock				

	Poultry	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managemental practices due to its adaptability and local climatic conditions. • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
	Piggery	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
	Fishery	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
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Integrated Agromet Advisory Service Bulletin from 26th to 30th April'17 Longleng District

Bulletin No:31/2017

Weather summary of the preceding week			Weather forecast valid upto 30 th April'17
<ul style="list-style-type: none"> Light rain occurred the past week Maximum and minimum temperatures ranged 24⁰C to 27⁰C and 12⁰C to 14⁰C, respectively. Relative humidity varied from 22% to 95%. Wind speed ranged from 1 to 2 kmph 			<ul style="list-style-type: none"> Probability of light rain the coming week. Max temp is likely to be 26⁰C - 27⁰C and the min temp 18⁰C to 19⁰C Sky is likely to be clear the coming week Relative Humidity is likely to range from 42% to 90%. Wind speed may reach upto 1- 2 kmph Wind direction will be mostly southeasterly
Field crops			
General Recommendations			
<ul style="list-style-type: none"> As there is probability of light rain this week too, proper drainage should be maintained in the field and proper weeding and earthing up should be carried out. Due to variable weather, farmers are advised to do constant monitoring against attack of pest and disease in vegetable crop, if symptom is observed then take protection measures as per recommendation when sky remain clear. 			
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum paddy	Vegetative stage	Blast	Maintain field sanitation and adopt clean cultivation
TRC/WRC paddy			Crop rotation should be adopted to break the cycle between insect pests or pathogen and host plant.
Summer maize	Vegetative stage		Maintain proper drainage in the field. As there is probability of rain this week too, after weeding, earthing up should be done.
Green gram	Vegetative stage		Clean cultivation should be maintained
Horticultural crop			
<ul style="list-style-type: none"> In nursery, to avoid damping off, other soil borne diseases, root rot and wilt diseases sow the seeds in raised bed. Maintain proper sanitation – <ul style="list-style-type: none"> ✓ Removal and burning of previous crop debris and infected plant parts, Remove weeds at regular intervals 			
Mandarin			<ul style="list-style-type: none"> During this season, single spray of bavistin (0.1%) should be done After 15 days spray the bordeaux mixture (1%)

	Okra	Vegetative stage		<p><i>Grow maize on borders as a barrier to prevent the entry of shoot & fruit borer adults.</i></p> <p><i>Weeding should be done and earthing up should be carried out.</i></p>
	Potato	Maturing stage		<ul style="list-style-type: none"> • <i>Farmers are advised to monitor the field for the incidence of blight.</i>
			Potato aphids	<ul style="list-style-type: none"> • <i>Check for potato aphids which transmits potato leaf curl virus. Aphids pierce veins, stems, growing tips, and blossoms with their needle-like mouthparts. As a result, blossoms shed and yield is reduced. New growth becomes stunted and curled. Heavily infested plants turn brown and die from the top down. Aphids tend to spread rapidly from field to field</i>
			Early blight and late blight	<ul style="list-style-type: none"> • <i>Remove the affected plant/parts and regular monitoring of field for disease should be done.</i> • <i>Provide proper earthing up (15cm height) to reduce the infection of tubers.</i>
	Cucurbits	Vegetative stage		<ul style="list-style-type: none"> • <i>Spray ethrel (plant growth regulator) @0.2 ml in 1 lt of water at 2 true leaf stage and second spray at 4 true leaf stage to increase the number of fruits.</i>
	Summer vegetables	Vegetative stage		<ul style="list-style-type: none"> • <i>For spring summer vegetables, the young seedlings should be taken care properly. Monitor the field for damping off and other fungal disease. Take proper measures.</i>
	Brinjal	Transplanting stage		<ul style="list-style-type: none"> • <i>Transplanting of young seedlings of brinjal may be done in prepared fields. Seed treatment should be done. Use well decomposed FYM 10-12 tonne/acre in the field after ploughing.</i>
	Naga king chilli	Transplanting stage	Damping off	<p><i>February sown king chilli may be transplanted in the field at 90-100cm spacing. Well decomposed FYM/vermicompost or other locally available manures should be applied.</i></p>
	Fruit trees			<p><i>Pits for fruit plantations should be ready for May - June planting (1x1x1) m³ pit size.</i></p>
	Mango		Mango hopper	<p><i>In mango orchard, farmers are advised for monitoring the mango hopper. Infected inflorescence should be destroyed.</i></p>
Livestock				

	<i>Poultry</i>	<ul style="list-style-type: none"> • Vanaraja, a dual purpose bird is suitable for backyard poultry farming due to its high production potential in terms of meat and egg than that of local/desi bird (low produces of meat and egg). It thrives well under low feeding and managerial practices due to its adaptability and local climatic conditions. • Srinidhi, a coloured bird of egg laying type, suitable for rural poultry farming. • Vaccinate the bird against Ranikhet disease
	<i>Piggery</i>	<ul style="list-style-type: none"> • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. Keep floor dry to avoid skin diseases. • Do AI (Artificial Insemination) in sow for breeding purpose • Deworming of pig at every 6 month interval
	<i>Fishery</i>	<ul style="list-style-type: none"> • Rake the pond bottom and allow to dry. • Apply lime powder over dry surface of the pond bottom. • Clear jungle and do minor repairing of dyke.

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