

**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Kangpokpi****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 20-21 oC amadi ingbagina 3-4 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 82 % amadi nungthildana 39 % oiraba yai. Nungsit sitpagi changna pung amada 5 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyrifos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ising litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga mayit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Bishnupur

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 24-25 °C & mini. temp. 7-8 °C. Relative humidity may reach upto 96% (max) & 46% (min). The average wind speed may be 1-4 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos (1.5%) dust</i> @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Chandel

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-24 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 92% (max) & 41% (min). The average wind speed may be 3-7 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
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Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
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		Shearing for wool	Sheep should be sheared during this month.

Fishery:

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		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Churachandpur

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-24 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 96% (max) & 44% (min). The average wind speed may be 3-5 km/hr.

General Advisory:

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SMS:

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Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal East****Date of issue: 17th January, 2020****Weather forecast (18th to 22nd January, 2020):**

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-24 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 88% (max) & 43% (min). The average wind speed may be 4-8 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Imphal West

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-24 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 89% (max) & 43% (min). The average wind speed may be 5-7 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Jiribam

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-24 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 81% (max) & 38% (min). The average wind speed may be 4 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Kakching

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-22 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 79% (max) & 33% (min). The average wind speed may be 5-7 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos (1.5%) dust</i> @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Kamjong

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-22 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 79% (max) & 33% (min). The average wind speed may be 5-7 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Kangpokpi

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 20-21 °C & mini. temp. 3-4 °C. Relative humidity may reach upto 82% (max) & 39% (min). The average wind speed may be 5 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Noney

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-24 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 88% (max) & 42% (min). The average wind speed may be 4 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Pherzawl

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-24 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 86% (max) & 39% (min). The average wind speed may be 4 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos (1.5%) dust</i> @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Tamenglong

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-22 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 81% (max) & 40% (min). The average wind speed may be 5 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos (1.5%) dust</i> @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Tamenglong

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-22 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 81% (max) & 40% (min). The average wind speed may be 5 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Procure quality seeds of pre-kharif rice. Recommended variety: RCM13 (90-105 days)/RCM7 (110-120 days). Prepare 700-800 m² area of nursery for transplanting in 1 ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Tengnoupal

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-22 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 90% (max) & 40% (min). The average wind speed may be 4-8 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Thoubal

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 24-25 °C & mini. temp. 7-8 °C. Relative humidity may reach upto 90% (max) & 45% (min). The average wind speed may be 3-9 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	- If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos (1.5%) dust</i> @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th January, 2020

District: Ukhrul

Weather forecast (18th to 22nd January, 2020):

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-22 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 79% (max) & 37% (min). The average wind speed may be 5-6 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing, or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Noney****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 88 % amadi nungthildana 42 % oiraba yai. Nungsit sitpagi changna pung amada 4 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharacka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpagi laina ngakthoknaba lingthokpagi numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpagi lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpagi chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiya. Chayol 8-9 shubada R2B vaccine pibiya amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiya.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiya.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiya. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiya.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhri gi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiya.



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

**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 17th January, 2020****Block: Patsoi****Weather forecast (18th to 22nd January, 2020):**

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23.8 °C & mini. temp. 11.2 °C. Relative humidity may reach upto 78.6% (max) & 35.8% (min). The average wind speed may be 6 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020

District: Imphal West

Block: Patsoi

Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23.8 oC amadi ingbagina 11.2 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 78.6 % amadi nungthildana 35.8 % oiraba yai. Nungsit sitpangi changna pung amada 6 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyou/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyou. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyou natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyou.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpangi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpagi laina ngakthoknaba lingthokpagi numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpagi lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpagi chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Pherzawl****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 86 % amadi nungthildana 39 % oiraba yai. Nungsit sitpagi changna pung amada 4 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ising litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Senapati****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 20-21 oC amadi ingbagina 3-4 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 87 % amadi nungthildana 42 % oiraba yai. Nungsit sitpagi changna pung amada 4-5 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ising litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairen, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Tamenglong****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 21-22 oC amadi ingbagina 4-5 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 81 % amadi nungthildana 40 % oiraba yai. Nungsit sitpagi changna pung amada 5 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrugadi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Tengnoupal****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 21-22 oC amadi ingbagina 4-5 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 90 % amadi nungthildana 40 % oiraba yai. Nungsit sitpagi changna pung amada 4-8 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kanggakpa laina	- Mana moosinlaga kanggakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga mayit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Thoubal****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 24-25 oC amadi ingbagina 7-8 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 90 % amadi nungthildana 45 % oiraba yai. Nungsit sitpagi changna pung amada 3-9 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Ukhrul****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 21-22 oC amadi ingbagina 4-5 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 79 % amadi nungthildana 37 % oiraba yai. Nungsit sitpagi changna pung amada 5-6 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairen, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 17th January, 2020****Block: Wangoi****Weather forecast (18th to 22nd January, 2020):**

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23.9 °C & mini. temp. 11.2 °C. Relative humidity may reach upto 80.2% (max) & 36.4% (min). The average wind speed may be 5.6 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL****Chefong gi tang:** 17th January, 2020**District:** Imphal West**Block:** Wangoi**Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23.9 oC amadi ingbagina 11.2 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 80.2 % amadi nungthildana 36.4 % oiraba yai. Nungsit sitpangi changna pung amada 5.6 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyou/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyou. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyou natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyou.
		Wahik	- Wahik yamna tadrugadi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpangi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpagi laina ngakthoknaba lingthokpagi numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpagi lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpagi chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhri gi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Bishnupur****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 24-25 oC amadi ingbagina 7-8 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 96 % amadi nungthildana 46 % oiraba yai. Nungsit sitpagi changna pung amada 1-4 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharacka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Chandel****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 92 % amadi nungthildana 41 % oiraba yai. Nungsit sitpagi changna pung amada 3-7 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Churachandpur****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 96 % amadi nungthildana 44 % oiraba yai. Nungsit sitpagi changna pung amada 3-5 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ising litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhri gi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 17th January, 2020****Block: Haorangsabal****Weather forecast (18th to 22nd January, 2020):**

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23.8 °C & mini. temp. 11.1 °C. Relative humidity may reach upto 78.4% (max) & 35.8% (min). The average wind speed may be 5.8 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracer @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

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

**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL****Chefong gi tang:** 17th January, 2020**District:** Imphal West**Block:** Haorangsabal**Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23.8 oC amadi ingbagina 11.1 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 78.4 % amadi nungthildana 35.8 % oiraba yai. Nungsit sitpagi changna pung amada 5.8 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminnaba chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpigi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga mayit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R ₂ B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 17th January, 2020****Block: Hiyangthang****Weather forecast (18th to 22nd January, 2020):**

Likely to have no rains upto Wednesday. The sky will remain mainly clear to partly cloudy with max. temp. 23.8 °C & mini. temp. 11.2 °C. Relative humidity may reach upto 79.2% (max) & 35.8% (min). The average wind speed may be 5.6 km/hr.

General Advisory:

Protect birds and animals from cold by hanging hessian cloth/ polythene around the walls of sheds and if required provide artificial heat source to attain warm condition in sheds.

SMS:

Raise nursery for pre-kharif rice. Recommended variety: RC Maniphou 12. Prepare 700-800 m² area of nursery for transplanting in 1 ha. Seed rate is 50-60kg/ ha.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate- Transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha or SRI: 7-8 kg/ha.
Rapeseed	Vegetative to flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water on the infected patches only.
Field pea/ Lentil	Vegetative to flowering	Rust or Powdery mildew	- Spray Bayleton @ 7g/ 10 litres of water or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbecidin (0.3%) to control rust disease.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi Maize	Vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Tuber formation		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water.
		Late Blight	- Infected plants must be destroyed as soon as detected. Spray Dithane M-45 at 10 days interval depending upon the severity of infestation.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Sowing		- Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. Maintain seedlings upto 4-5 leaves stage under the polyhouse .
Coriander/ Spinach beet (Palak)	Vegetative to flowering		- Monitor insect pest regularly. Weeding may be done. - Apply 64kg urea/ sangam after 30-35 days after transplanting onion/ garlic.
Onion/ Garlic	Bulb initiation	Thrips in onion	- To prevent thrips in onion crop install blue sticky trap in the field or spray Neem Seed Kernel extract @2ml/litre of water. Put a layer of mulch on the ground near the onion plant.
Broad bean/ Garden Pea/ French bean	Flowering and fruiting to harvesting		- Harvest mature fruits before spraying pesticide. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.



Cabbage/ Cauliflower (Late Variety)	Transplanting to vegetative		- In cole crop infested by cut worm, mechanically destroy the larvae. If infestation is high then apply Phorate10G or <i>Chloropyrifos</i> (1.5%) dust @25kg/ha. - Apply Tracerl @ 300gm/ sangam in 30-35days old (after transplanting) cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Citrus	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.

Animal Sciences

* Protect birds and animals from cold and rain.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	- Amprolium powder may be added in low dose in both feed (@25 g per 1000kg of mash) and drinking water (30g/ 25 lit of water) of poultry above 3 weeks of age.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days. 2. R ₂ B vaccine at 8-9 weeks of age and 3. Killed ND virus vaccine at 16-18 weeks of age.
		Management	- Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A. - Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Provide artificial heat source especially at night time.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Pond water	- If the pond water quality is not good then change the water with fresh and clear water. Maintain water depth of 1.0-1.5m. - Apply Lime or Aqua magic regularly maintain good quality pond water. - If the water level in pond is decreasing then culture pond area may be reduced and stocking density may be maintained.
		Feeding	- Minimum feed must be provided in two splits @ 1-2 % of body weight per day.
		Harvest	- Harvesting may be done.
			- Check fish health from time to time by netting.

(I. Meghachandra Singh)
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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020

District: Imphal West

Block: Hiyangthang

Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23.8 oC amadi ingbagina 11.2 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 79.2 % amadi nungthildana 35.8 % oiraba yai. Nungsit sitpangi changna pung amada 5.6 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyou/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyou. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyou natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyou.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharacka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyou.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpangi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga mayit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Imphal East****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 88 % amadi nungthildana 43 % oiraba yai. Nungsit sitpagi changna pung amada 4-8 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ising litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadragedi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Imphal West****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 89 % amadi nungthildana 43 % oiraba yai. Nungsit sitpagi changna pung amada 5-7 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Jiribam****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 81 % amadi nungthildana 38 % oiraba yai. Nungsit sitpagi changna pung amada 4 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrugadi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga mayit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R ₂ B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Kakching****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 23-24 oC amadi ingbagina 6-7 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 92 % amadi nungthildana 44 % oiraba yai. Nungsit sitpagi changna pung amada 3-9 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrageidi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpagi laina ngakthoknaba lingthokpagi numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpagi lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpagi chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna leijaba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna leijaba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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**MANIPURGI AYING-ASA-NONGJUG MARI LEINABA LOU UBA AMADI SHA- NGA LOIBAGI PAOJEL**Chefong gi tang: 17th January, 2020**District: Kamjong****Lakliba numit mangani da (18th to 22nd January, 2020) aying-asa-nongjugi paojel:**

Lakliba Yumjakeisa faoba nong chudaba yai. Atiyada leichil khara khanlaba yai. Khwaidagi sabagi changna 21-22 oC amadi ingbagina 4-5 oC oiraba yai. Nungsitta ishinggi manilgi changna yammabada ayukta 79 % amadi nungthildana 33 % oiraba yai. Nungsit sitpagi changna pung amada 5-7 km oiraba yai.

Mayamgi oiba paotak:

Sha- Uchekki makolgi akoibada bora/ phi/ polythene yanbiraga ayingba ngakthoknaba semjinbiyu. Maru oina nungdanggi matamda makol manungda lumnba meifu thambiyu/ bulb thanbiduna sahanbiyu.

Akhannaba paotak:

Angan phou variety RC Maniphou 12 gi maru 1kg da 2g Carbendazim totlaga 1 pari da lingthoknaba 700-800 m² pakpa loufamda 50-60 kg hunbiyu.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Angan phou	Seed collection and land preparation for nursery		Afaba makhalgi phoudi lousinbiyu. Variety: RCM 13 (numit 90-105 da lokpa yaba) or RCM 7 (numit 110-120 da lokpa yaba). Pari amada thahoknaba louhon hunfam 700-800 m ² pakna semjinbiyu. Pari amada phoudi gi chaang- Lingthokpagina 50-60 kg/ khoidokpa loufamda hunnaba oiragana 65-70 kg natraga paring naina thabagi na 30-40 kg amadi pambi amamamtang thanaba oiragana 7-8 kg.
Hangam	Vegetative to flowering		Hangam mapal sarabada pari amada khoi upoo mari thambiyu. Laina tilnagi hidak chaibiganu.
		Kokfai kaba/ kolhing kaba manbi/ mana mosinlakpa laina	- Maru hunkhiba numit 50-60ni shurakpada ishing litre amada 2g Redomil MZ 72 WP happaga kappiyu natraga Garlic Bulb Extract (ST) @ 1% natraga Trichoderma harzianum sijinabiba yani.
		Wahik	Nong hangakanda hangam loufamda wahik ngakthoknaba 3 sq.m khudingda Yellow plate thambiyu natraga ishing litre amada Pyrethrin 2ml happaga wahik tariba mafamda kappiyu.
		Tilkhak	Nong hangakanda tilkhak taba ngakthoknaba tilt aba mafamda ishing litre amada 2ml gi changda Chloropyriphos happaga kappiyu.
Hawai Tharak/ Hawai masoori	Vegetative to flowering	Kokfai kaba/ kolhing kaba manbi laina	- Ishing litre 10da 7g Bayleton happaga kappiyu natraga 5% concentration ta Neem Seed Kernel Extract at happaga chaibibada Kokfai kaba laina ngakthokpa yani. Kolhing kaba manbi laina ngakthoknaba Nimbecidin (0.3%) sijinabiyu.
		Wahik	- Wahik ngakthoknaba ishing litre 15da 7-10 ml Imidachloprid 17.8 SL happaga kappiyu.
Ningtham Chuzak	Vegetative		Hangam amadi hawai tharakka punna thaminna chuzak loufamda kungna houjinba mafamdagi pambi sattokpiraga changnaina houhanbiyu.
Alu	Tuber formation		Alu thaba numit 40-45ni gi matungda makhong sombiraga sangam amada 30-35kg DAP happiyu.
		Pukshri	Pukshri ngakthoknaba Trichlorfon gi poison bait (1kg wai + 40g chini + 5g Trichlorfon + ishing) semmaga pambigi makhong manakki leibakta thambiyu.
		Wahik	- Wahik yamna tadrugadi ishingna thadokpiraga yengbiyu adubu yamna pak sanna taragadi ishing litre amada 1 ml Cypermethrin 20 E.C. happaga kappiyu.
		Mana moosinlaga kangngakpa laina	- Mana moosinlaga kangngakpa laina naba yaorakadi pambi foidokpiyu. Nong hangaga laina ngakthoknaba numit tarani kannraga Dithane M-45 ngakthokpiyu.
Maru yoksinba	Post-harvest Management		Maru oina thamjinnaba mahei lokpagi matung ningthina sengdokpiraga amadi kanghanlaga Meitan akangbaga loinana 80:20 gi changda RC Seed Bin da thamjinbiyu. Marak marakta darkargi matung inna maru amadi meitan kanghanbiyu.



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mari chatpa	Sowing		Tarbuj, thabi, torbot, khongdroom, mairén, sabot na chingba mari chatpi pambi gi chaar poly-house makhada thanaba semjinbiba houba yare. Chaargi mana 4-5 shudrifaoba thambiyu.
Fadigom/ palak	Vegetative to flowering		Laina tilna taba yengsinbiyu. Ahenba pambi/ napi houjinba foidokpiyu. - Tilhou/ chanam thadokpa numit 30-35ni shurakpada sangam amada 64kg Urea happiyu.
Tilhou/ chanam	Bulb initiation	Tilhou mana maton ngangsinlakpa natraga wahik	Tilhou mana maton ngangsinlakpa natraga wahik ngakthoknaba blue sticky trap sijinabiya/ ishing litre amada 2ml Neem Seed Kernel Extract happaga kappiyu. Charu/ una akangba pambi mahongda thambiyu.
Hawai moobi/ Hawai tharak/ Koli hawai	Flowering and fruiting to harvesting		Lokpa yaraba mahei marong lokpibagi matungda pambida angouba paklakpa natraga hangam mapal macho oina kolhing karakpadouna uba laina ngakthoknaba ishing litre 10da 7g Bayleton happaga nong hangakanda kappiyu. Lainasingase anamba uroomnaiba mafamda houba pambida naganli.
Kobi/ thamchet manbi	Transplanting to vegetative		- Kobi loufamda kanadaba/ ahenba pambi houjinlakpa pambi foidokpiyu amadi Pukshri taba ngakthoknaba pari amada 25kg Phorate10G natraga Chloropyrphos (1.5%) dust happiyu. - Mana konsinbi laina/ manada khamen machugi mayee chatpa micro-nutrient watpaga laina ngakthoknaba lingthokpaga numit 30-35 ni gi matungda sangam amada 300g Tracel happiyu. Darkar leirabadi numit 10ni gi matungda amukka happiyu.
Champra/ komla	For grown up trees	Powdery mildew	Heikolda ngouna kokfai kaba manbi laina taba thengnabiradi, lokpa yaba mahei lokpiraga ishing litre 15da 7g Bayleton happaga kappiyu.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Yen/ Nganu	Loinamakta	Coccidiosis	Chayol 3 shuraba yendagina mapi faraba yen gi chinzak 1000kg da 25g amadi thaknaba ishing litre25da 30g Amprolium powder happiraga amangbada ee yaorakpaga lainadagi ngakthokpiyu.
		Ranikhet laina	Ranikhet laina ngakthoknaba yen onlakpaga chayol amagi manungda F-1 Strain gi ahanba dose kappiyu amadi anirakshuba dose oina tha farakanda pibiyu. Chayol 8-9 shubada R2B vaccine pibiyu amadi chayol 16-18 shurakpadana Killed ND virus vaccine pibiyu.
		Sennabada paikhatpa yaba thouram	Yengi chinzakta chengkup/ chuzakki chaang khara hapkatpiyu. Yenna loomna leijanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Oak	Tha 3 henlabada	Til leitanaba	Oakta til leitanaba masagi arumba kg amada 15 mg gi chaangda Morantel citrate tablet (Banminth) pibiyu.
		Sennabada paikhatpa yaba thouram	Oakna loomna lejiba yanaba charu/ wai marang kaina akangba khanlaga thambiyu.
Shan	Tha 3 henlabada	Hidak kappa	Shanda B.Q., F.M.D. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Shanda til leitanaba masagi arumba kg 100 khudingda 20-30ml gi changda Albomac suspension pibiyu. Shanna loomna lejiba yanaba charu akangba marang kaina khanlaga thambiyu.
		Sennabada paikhatpa yaba thouram	
Hameng	Tha 3 henlabada	Hidak kappa	Hamengda B.Q. amadi H.S. laina ngakthoknaba hidak kappiyu.
		Til leitanaba	Hamengda til leitanaba masagi arumba kg 10da 3ml gi changda Ranizole suspension pibiyu.
Fishery:			
* Ngayok pukhrida awatpa ishing thajinnaba nong ishing yoksinbiyu.			
Nga yokpa	Mapi faraba ngagi	Pukhri ishing	Ngayok pukhrigi ishing motsinlakadi pari amada 25-30kg gi changda shunu natraga 2L Green AQ happiyu.
		Chinzak	Masagi arumbagi 1-2% gi changda nongmada anirakthokna pibiyu.



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