**INDIAN COUNCIL OF AGRICULTURAL RESEARCH**
**Agricultural Technology Application Research Institute, Zone-III**
**Umiam, Meghalaya**
***Format for Annual Action Plan Formulation of KVKs 2020***

**Name of the KVK/District:**

**Present Staff Position in KVK:**

| Sl. No. | Name of the incumbent | Gender (M/F) | Category (SC/ST/OBC/Others) | Designation | Discipline |
|---|---|---|---|---|---|
| 1 | Dr. HENRY SAPLALRINLIANA | Male | ST | Sr Scientist & Head | Soil Science & Agriculture Chemistry |
| 2 | SYED KHALIDUDDIN AHMED | Male | GENERAL | Scientist | Animal Science |
| 3 | Dr. MALSAWMKIMI | Female | ST | Scientist | Horticulture |
| 4 | F. ZORAMTHARI | Female | ST | Scientist | Plant Protection |
| 5 | Dr. OM PRAKASH | Male | GENERAL | Scientist | Agronomy |
| 6 | ISRAEL LALREMRUATA | Male | ST | Scientist | Agro Forestry |
| 7 | R. VANLALDUATI | Female | ST | Scientist | Soil Science |
| 8 | LALHRUAITLUANGI | Female | ST | PA (Home Sc) | Home Science |
| 9 | SAMSON SAIRENGPUIA SAILO | Male | ST | PA (Computer) | Computer/IT |
| 10 | PRAKASH THAPA | Male | GENERAL | Farm Manager | Horticulture |
| 11 | K.VANLALHMANGAIHI | Female | ST | Assistant | Commerce |
| 12 | CRUSADE THANGPUII | Female | ST | Stenographer | Arts |
| 13 | LALNUNTLUANGA | Male | ST | Driver | - |
| 14 | R.DENGLIANA | Male | ST | Driver | - |
| 15 | LALTANPUIA | Male | ST | Supporting staff | - |
| 16 | LALVENHIMA | Male | ST | Supporting staff | - |

**Discipline:** AGRONOMY

**Name of the concerned Subject Matter Specialist: Dr.Om Prakash Mobile No: 9436960302 E-mail address: om2@rediffmail.com**

| Mandated activities | Thematic area | Details of Technology | Source and Year of release | Assess/ Refine | Area (in ha.) | Location | Period and Duration | No. of benefeciaries | | | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | |
| | | | | | | | | M | F | Total | M | F | Total | |
| On farm testing | Integrated Farming System/Integrated Crop Management | Maize + Beans - Vegetable pea cropping system for rainfed conditions under organic management system<br>**Technology:**<br>**TO1:** Maize + bean-V. Pea<br>**TO2:** Maize - Pea **(Local)** | ICAR – NOFRI, Gangtok,2015 | Assess | 1 | Tuisenphai, Phaitha, | May –Feb 21, 300 days | 3 | - | 3 | | | | **3** |
| | Varietal Evaluation | To assess the performance of Field pea var. IPFD 10-12<br>**Technology:**<br>**TO1**: Field pea var. IIPR var. IPFD 10-12 (Early maturing, 109 days, resistant to powdery mildew, tolerant to moisture stress)<br>**TO2:** Rachna **(Farmer practice)** | IIPR, Kanpur 2014 | Assess | 1 | Zotlang, Phaitha, Tuimuk | Oct 20-Feb.21 109 days | 3 | - | 3 | | | | **3** |

| Mandated activities | Thematic Area | Technology/Crop/Cropping System | Source and Year of release | Demon (No.) | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/demon. | | | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | |
| | | | | | | | | M | F | Total | M | F | Total | |
| Front Line Demonstration | Varietal evaluation | Popularization of Groundnut<br>Variety: ICGV 91114<br>**D.O.T. :** June<br>Seed rate : 80kg/ha<br>**Observation :**<br>1. Date of sowing<br>2.Grain yield (q/ha)<br>Farming Situation : Rainfed | ICRISAT, Hyderabad, 2007 | 10 | 5.0 | Mualkawi, Khawzawl, Phaisen, Tuisen | July-November 150 days | 06 | 04 | 10 | - | - | - | 10 |
| | Integrated Nutrient Management | Popularization of Aman/AP-3 with *Rhizobium* inoculation<br>Sowing: November<br>Seed rate : 80 kg/ha<br>Technology: *Rhizobium* coating @200g/10kg seed | IIPR, Kanpur, 2017 | 20 | 10 | Phaitha, Tuimuk, Zotlang, Tuisen | Oct 20-Feb.21 90 days | 10 | 10 | 20 | - | - | - | 20 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Observation :**<br>1. Date of sowing<br>2. Seed yield (q/ha)<br>Farming Situation : Rainfed | | | | | | | | | | | | |

| **Mandated activities** | | **Target group** | **Title of the training Programme and No. of Courses in bracket** | **No. of training prog.** | **Period of the year** | **Duration (in days)** | **On/Off campus** | **Number of participants** | | | | | | **Grand Total** | **Remarks** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | **SC/ST** | | | **General** | | | | |
| | | | | | | | | **M** | **F** | **Total** | **M** | **F** | **Total** | | |
| **On and Off campus training programmes** | 1. | Farmer and Farm women | Importance of crop rotation for improving soil health(2) | 2 | Aug –Dec 2020 | 2 days | On/ Off | 40 | 20 | 60 | - | - | 60 | 60 | |
| | | | Package of practices for cultivation of groundnut (2) | 3 | Aug –Dec 2020 | 2 days | On | 55 | 35 | 90 | - | - | 90 | 90 | |
| | | | Scientific cultivation of Field pea & benefits of Rhizobium inoculation (2) | 4 | Sept-Dec 2020 | 2 days | Off | 90 | 30 | 120 | - | - | 120 | 120 | |
| | 2. | Rural Youth | Importance of mulching practices for Rabi crops. (1) | 2 | Sept-Dec 2020 | 1 day | Off | 30 | 10 | 40 | - | - | 40 | 40 | |
| | 3. | Extension Personnel | Method and seed inoculation of Field pea. (1) | 1 | Nov 2020 | 1 day | On | 10 | 05 | 15 | - | - | 15 | 15 | |
| **Vocational training programme** | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **Sponsored training programmes** | | | | | | | | | | | | | | | **Sponsoring agency** |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

**Discipline:** **Horticulture**

**Name of the concerned Subject Matter Specialist: Dr. Malsawmkimi Mobile No: 9612624738**

**E-mail address: sawmi77@rediffmail.com**

| Mandated activities | Thematic Area | Name of Technology | Source and Year of release | Assess /Refine | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ trials | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | Grand Total |
| | | | | | | | | M | F | Tot | M | F | Tot | |
| On farm testing | Varietal evaluation | Evaluation of Onion var. NHRDF Red 4<br>**TO1:** NHRDF Red 4<br>Seed rate 8-10 kg/ha<br>Time of sowing: September<br>NPK:150:60:60 kg/ha<br>Spacing :15X10<br>**TO2**:Pusa Red | NHRDF, 2017 | A | 0.75 | Khawzawl, Hmunhmeltha, Tualte | Sep-Jan, 2020 | 2 | 1 | 3 | - | - | - | 3 |
| | Integrated Nutrient Management | | | | | | | | | | | | | |
| | Integrated Weed Management | | | | | | | | | | | | | |
| | Orchard Rejuvenation | | | | | | | | | | | | | |
| | Post Harvest Processing/ Value Addition | | | | | | | | | | | | | |
| | Canopy mgmt. | | | | | | | | | | | | | |
| | Landscaping | | | | | | | | | | | | | |
| | Mechanization | | | | | | | | | | | | | |
| | Organic farming | Cultivation of *kharif* cabbage (Ryozeki) by using organic sources of nutrients<br>Spacing-45x45cm<br>Sowing-April<br>**TO1**: Seed rate: 800g/ha<br>Seed treatment : Azotobacter and Phospho Solubilising Bacteria (PSB) @7.5g each per 100g of seeds. Seed treatment with Bio-fertilizers slurry for at least 1 hour before sowing<br><br>**TO2**: Farmers' practice | Deptt of Horticulture , AAU, Jorhat, 2012 | A | 0.75 | Tualte, Khawzawl and Tuipui | June-Oct, 2020 | 2 | 1 | 3 | - | - | - | 3 |

| Mandated activities | Thematic Area | Name of technology | Source and Year of release | Crop/ cropping system | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ demon. | | | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | |
| | | | | | | | | M | F | Total | M | F | Total | |
| Front Line Demonstration | Varietal evaluation | Demonstration of IARI carrot variety Pusa Vrishti<br><br>**Technology:**<br>Seed rate: 8-10 kg/ha<br>Spacing: 30 X 10 cm<br>FYM: 100q/ha<br>N:P:K: 50:40:50 kg/ha | IARI, 2009 | Irrigated | 6.75 | Ngaizawl, Chawngtlai, Biate, Khawzawl, Tualte | Oct 2020-feb 2021 | 10 | 5 | 15 | - | - | - | 15 |
| | | Popularization of tomato variety Arka Samrat<br>**Technology:**<br>Seed Rate<br>125-175g/Ha<br>NPK kg/ha 120:50:50 kg/ha<br>Spacing : 60 X 45 cm | IIHR, 2016 | Irrigated | 6.75 | Biate, Chawngtlai, New Chalrang | July- October 2020 | 10 | 5 | 15 | - | - | - | 15 |
| | | Popularization of tomato variety Arka Abhed<br>**Technology:**<br>Seed Rate<br>125-175g/Ha<br>NPK kg/ha 120:50:50 kg/ha<br>Spacing : 60 X 45 cm | IIHR, 2018 | Irrigated | 4.5 | Tualte, Tuipui and Chawngtlai | July- October 2020 | 5 | 5 | 10 | - | - | - | 10 |
| | Integrated Weed Management | | | | | | | | | | | | | |
| | Orchard Rejuvenation | | | | | | | | | | | | | |
| | Post Harvest Processing/ Value Addition | | | | | | | | | | | | | |
| | Canopy mgmt. | | | | | | | | | | | | | |
| | Landscaping | | | | | | | | | | | | | |
| | Mechanization | | | | | | | | | | | | | |
| | Any other (Pl. Specify) | | | | | | | | | | | | | |

| Mandated activities | Target group | No. of training progs | Title of the training Programme and No. of Courses | Period of the year | Duration (in days) | On/ Off campus | Number of beneficiaries | | | | | | | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SC/ST | | | General | | | Grand Total | |
| | | | | | | | M | F | Total | M | F | Total | | |
| On and Off campus training programmes | Farmer and Farm women | 2 | Scientific management of Khasi mandarin(4) | 2020 | 3 | On | 40 | 20 | 60 | - | - | - | 60 | |
| | | 3 | Improve production technology of Onion(6) | 2020 | 3 | Off | 60 | 30 | 90 | - | - | - | 90 | |
| | | 1 | Improved technology in production of Tomato cultivation(2) | 2020 | 3 | Off | 20 | 10 | 30 | - | - | - | 30 | |
| | Rural Youth | 1 | Production of technology in Tomato(2) | 2020 | 3 | On | 15 | 5 | 20 | - | - | - | 20 | |
| | | 1 | Improve-production technology of Onion and garlic(2) | 2020 | 3 | Off | 15 | 5 | 20 | - | - | - | 20 | |
| | Extension Personnel | 1 | Improved production technology of Tomato var. Arka Samrat (2) | 2020 | 1 | On | 8 | 2 | 10 | - | - | - | 10 | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Vocational training programmes | Farmer and Farm women | 1 | Improve-production technology of Ginger(2) | 2020 | 3 | On | 15 | 5 | 20 | - | - | - | 20 | |
| | Rural Youth | | | | | | | | | | | | | |
| | ExtensionPersonnel | | | | | | | | | | | | | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO | | | | | | | | | | | | | |
| Sponsored training programmes | | | | | | | | | | | | | | Sponsoring agency |
| | Farmer and Farm women | 1 | Improve production technology of Onion and garlic(2) | 2020 | 3 | Off | 20 | 10 | 30 | - | - | - | 30 | - |
| | Rural Youth | | | | | | | | | | | | | |
| | Extension Personnel | | | | | | | | | | | | | |
| | NGO(including school drop-outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |

**Discipline:** **Plant Protection ( Plant Pathology)**

**Name of the concerned Subject Matter Specialist:** F Zoramthari Mobile **No:** 9862842195 **E-mailaddress:** fzori@yahoo.com

| Mandated activities | Thema tic Area | Name of Technology | Source and Year of release | Assess/Re fine | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ trials | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | |
| | | | | | | | | M | F | Total | M | F | Total | Grand Total |
| On Farm Trials | Integrated Disease Mgmt | **Integrated Disease Management of Late Blight (*Phytophthora infestans*)of Potato**<br>**TO -1** :<br>-Soil application – T. harzianum and Pseudomonas flouresens 15 days before planting<br>-Tuber treatment –Mancozeb@0.25%<br>-Prophylactic spray –Mancozeb@0.2% twice at weekly before onset of disease<br>-Curative spray with Cymoxil + Mancozeb @0.3%<br>**TO-2** :<br>Farmers practice (No treatment) | ICAR-KVK,Kolar and Sirsi,Karnataka ,2018 | A | 1.5 | Chawngtlai,, Zotlang, Khawzawl | February 2020 to July 2020 | 3 | - | 3 | - | - | - | 3 |
| | Integrated Pest Mgmt | **Integrated Pest Management of White Fly (*Bemesia tabaci*) in Mizo Chilli**<br>**TO1**<br>Conventional :<br>-Mechanical :Yellow Sticky @ 4-5 trap/acre<br>-Chemical : Fenpropathrin 30% @ 100-136 in 300-400 L of water/acre<br>-For organic plots(PKVY)<br>-garlic emulsion @ 2%<br>-Yellow sticky trap<br>-Neem based @ 5mL/L<br>**TO2**- Farmers Practice (No treatment) | NIPHM,Hyderabad,Telangana ,2014 | A | 1.2 | Chawngtlai, Dulte, Tualte | June 2020 to December 2020 | 2 | 1 | 3 | | | | 3 |

| Mandated activities | Thematic Area | Name of Technology demonstrated | Source and Year of release | Crop/Cropping system | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ demon. | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | Grand Total |
| | | | | | | | | M | F | Total | M | F | Total | |
| Front Line Demonstration | Product evaluation (Efficacy) | Demonstration on Management of Citrus Psylla(*Diaphorina citri* in Mandarin Orange<br>**Technology**<br>Foliar application of novaluron 10EC @ 0.005% twice at 15 days interval during flushing period. | Citrus Research Station, Assam Agricultural University, Tinsukia-786125, 2018-19 | Mandarin Orange | 4 | Khawzawl Chalrang, New Chalrang Sialhawk Biate | January 2020 – December 2020 | 9 | 1 | 10 | | | | 10 |
| | Integrated pest Management | Integrated Pest management of Fall Army Worm<br>**Technology**<br>1. Seed treatment with Cyantraniliprole 19.8% + Thiomethoxam 19.8% @ 4ml/1 kg<br>2.Spraying with NSKE 5% 1 week after planting.<br>2.Spraying with Bt @ 2gm/litre water 2-3 weeks after planting<br>3) Installation of Pheromone trap @ 4-5 traps/acre<br>4) ETL based spraying with Emamectin benzoate 5% SG @ 0.4 g/lt | ICAR Kolasib, 2019 | Maize | 2 | Khawzawl, Chawngtlai Zotlang, Ruantlang | June 2020 – August 2020 | 7 | 3 | 10 | | | | 10 |

| Mandated activities | Target group | Title of the training Programme and No. of Courses in bracket | No. of training progs | Period of the year | Duration (in days) | On/Off campus | Number of beneficiaries | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SC/ST | | | General | | | Grand Total | |
| | | | | | | | M | F | Total | M | F | Total | | |
| On and Off campus training programmes | Farmer and Farm women | 1)IPM in Potato(2) | 2 | Apr-Dec,2020 | 2 | On and off | 30 | 15 | 45 | | | | 45 | |
| | | 2)IPM in Mizo Chilli(2) | 2 | Apr-Dec,2020 | 2 | On and off | 30 | 15 | 45 | | | | 45 | |
| | Rural Youth | | | | | | | | | | | | | |
| | Extension Personnel | | | | | | | | | | | | | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO(including school drop outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Vocational training programmes** | Farmer and Farm women | 1)IPM in Tomato(1) | 1 | Apr-Dec,2020 | 1 | On & off | 20 | 20 | 40 | | | | 40 | |
| | | 2)Mushroom cultivation(2) | 2 | Apr-Dec,2020 | 2 | On & off | 40 | 25 | 65 | | | | 65 | |
| | | 3) Preparation of Organic Pesticides(1) | 1 | Apr-Dec,2020 | 1 | off | 20 | 20 | 40 | | | | 40 | |
| | | 4)IPM in Citrus (2) | 2 | Apr-Dec,2020 | 2 | On &off | 40 | 25 | 65 | | | | 65 | |
| | Rural Youth | 1)Mushroom Cultivation(2) | 2 | Apr-Dec,2020 | 1 | on | 20 | 20 | 40 | | | | 40 | |
| | | 2)Preparation of Organic Pesticides(2) | 2 | Apr-Dec,2020 | 1 | off | 20 | 20 | 40 | | | | 40 | |
| | Extension Personnel | Preparation of Organic Pesticides(2) | 2 | Apr-Dec,2020 | 1 | on | 15 | 5 | 20 | | | | 20 | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO(including school drop-outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sponsored training programmes** | | | | | | | | | | | | | | **Sponsoring agency** |
| | Farmer and Farm women | IPM of vegetables ,Nursery management(2) | 2 | Apr-Dec,2020 | 2 | Off | 27 | 13 | 40 | | | | 40 | NCIPM,New Delhi |
| | Rural Youth | | | | | | | | | | | | | |
| | Extension Personnel | | | | | | | | | | | | | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO(including school drop-outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |

**Discipline**: **Soil Science**
**Name of the concerned Subject Matter Specialist: R.Vanlalduati Mobile No:**9612254175
**E-mail address:**duatikawlni@gmail.com

| Mandated activities | Thematic Area | Name of Technology | Source and Year of release | Assess/ Refine | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ trials | | | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | |
| | | | | | | | | M | F | Total | M | F | Total | |
| On farm testing | Soil health | | | | | | | | | | | | | |
| | Soil management | Integrated Nutrient Management in Potato (*Solanum tuberosum*) cv. Kufri Megha<br><br>**Technology**<br>**To1**<br>NPK-150:100:120 kg/ha<br>Vermicompost-2.5t/ha<br>N fertilizers will be applied as per treatment at the last ploughing, the whole quantity of organic manure(Vermicompost) will also be incorporated in the soil as per treatment.<br>**TO2**-Farmer Practice(No treatment)<br>Spacing : 60cm X 20 cm | Department of Horticulture Faizabad,U.P.India | A | 1 | Phaitha ,Zotlang | Feb-May 2020 | 2 | 1 | | | | | 3 |
| | Soil testing | | | | | | | | | | | | | |
| | Soil amendment (Lime/ Others) | | | | | | | | | | | | | |
| | Soil biology (BGA/ Azolla) | Root dipping in SSP-MC Slurry method of P in Lowland Paddy<br>**Technology**<br>**TO1-**<br>***Step-I***<br>A mud slurry bed (45 sq.m) is prepared in one corner of the main field. 7.0 kg SSP is to be mixed thoroughly with mud. Roots of uprooted rice seedling bundles need to be washed free of adhered mud and then roots are to be dipped in the SSP amended mud slurry bed for over-night.<br>***Step-II***<br>A mud slurry bed is to be prepared in one corner of the main field. 5 kg finely grounded dry compost along with either 4 kg MC biofertilizer or 500mL liquid MC biofertilizer are to be mixed thoroughly with mud in the slurry bed. The SSP slurry treated roots of rice seedling bundles are to be dipped in to MC amended mud slurry bed and incubated for 2 h.<br>**TO2**-Farmer Practice(No treatment) | College of Post Graduate Studies, CAU, Umiam, 2016 | A | 0.4 | Khawzawl ,Zotlang,Rabung | May-December 2020 | 3 | - | | | | | 3 |
| | Soil microbes (beneficial) | | | | | | | | | | | | | |
| | Any other | | | | | | | | | | | | | |

| Mandated activities | Thematic Area | Name of Technology demonstrated | Source and Year of release | Crop/ Cropping system | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ demon. | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | Grand Total |
| | | | | | | | | M | F | Total | M | F | Total | |
| Front Line Demonstration | Soil health | | | | | | | | | | | | | |
| | Soil management | | | | | | | | | | | | | |
| | Soil testing | | | | | | | | | | | | | |
| | Soil amendment | | | | | | | | | | | | | |
| | Soil biology (BGA/ Azolla) | Introduction of biofertilizers on growth and yield of French Bean<br><br>**<u>Technology</u>**<br>**TO1-**<br>Phosphorus Solubilizing Bacteria (*Pseudomonas sp*) (@ 2.5 kg/ha + Rhizobium seed treatment @100g/kg seed will be given uniformly<br>**TO2-**Farmer Practice(No treatment)<br>Sowing time: First week of July<br>Spacing: 45 cm X 10 cm | S.V.Agricultural College, Tirupati<br><br>2010 | Rainfed | 2 | Tuipui Tualte | February-December 2020 | 5 | 5 | | | | | 10 |
| | Soil microbes (beneficial) | | | | | | | | | | | | | |
| | Any other | Potassium nutrition on yield and quality of Grapes variety Bangalore Blue<br>**Technology**<br>$K_2O$ doses (g/vine)<br>**TO1**-400-$K_2O$<br>**TO2**-Farmers practice(No treatment)<br>(Fertilizer will be applied in split doses i.e Half dose of Potash will be applied immediately after pruning and the other half after 60 days of pruning. | IIHR, Bangalore 2010 | Rainfed | 5 | Vengsang, Ruantlang, Tlangsam | February to August 2020 | 7 | 3 | | | | | 10 |

| Mandated activities | Target group | Title of the training Programme and No. of Courses in bracket | No. of training progs | Period of the year | Duration (in days) | On/Off campus | Number of beneficiaries | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SC/ST | | | General | | | Grand Total | |
| | | | | | | | M | F | Total | M | F | Total | | |
| On and Off campus training programmes | Farmer and Farm women | 1)Promotion of organic farming(1)<br>2)Biofertilizers and its uses(1)<br>3)INM and its importance (1)<br>4)Nutrient management in jhumming with special reference to Ginger and Chilli (1)<br>5)Vermicomposting and Azolla culture (2) | 6 | 2020 | 3 days each | Off<br>Off<br>On<br>On<br>Off | 27<br>21<br>12<br>9<br>19 | 13<br>19<br>8<br>11<br>21 | 40<br>40<br>20<br>20<br>40 | | | | 40<br>40<br>20<br>20<br>40 | |
| | Rural Youth | | | | | | | | | | | | | |
| | Extension Personnel | | | | | | | | | | | | | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO(including school drop outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |
| Vocational training programmes | Farmer and Farm women | Soil conservation measures (1) | 1 | 2020-2021 | 3 days each | On | 17 | 13 | 30 | | | | 30 | |
| | Rural Youth | | | | | | | | | | | | | |
| | Extension Personnel | | | | | | | | | | | | | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO(including school drop outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |

| Sponsored training programmes | | | | | | | | | | | | | | Sponsoring agency |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Farmer and Farm women | 1)Promotion of organic farming (1)<br>2)Soil Fertility Management (1) | 3<br>3 | 2020 | 3 days each | Off<br>Off | 97<br>29 | 93<br>31 | 190<br>60 | | | | 190<br>60 | PKVY |
| | Rural Youth | Vermicomposting and its uses (3) | 3 | 2020 | 3 days each | On & Off | 87 | 53 | 140 | | | | 140 | ICAR-CRUAF |
| | Extension Personnel | Vermicomposting and its uses (1) | 1 | 2020 | 3 days each | On | 17 | 8 | 25 | | | | 25 | ATMA |

**Discipline:** **Agro Forestry**

**Name of the concerned Subject Matter Specialist:** Israel Lalremruata **Mobile No:.9436153750**
**E-mail address:israelremruata@yahoo.co.in**

| Mandated activities | Thematic Area | Name of Technology | Source and Year of release | Assess/Refine | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ trials | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | Grand Total |
| | | | | | | | | M | F | Total | M | F | Total | |
| On farm testing | Introduction of MPTs in existing Systems | | | | | | | | | | | | | |
| | Introduction of MPTs in newly Developed Systems | | | | | | | | | | | | | |
| | Introduction of high value crops/livestock in different systems | | | | | | | | | | | | | |
| | Reclamation of degraded area with MPTs etc. | | | | | | | | | | | | | |
| | Introduction of bio-fuel species/ tress | | | | | | | | | | | | | |
| | Canopy Management (Pruning/ Topping) | | | | | | | | | | | | | |
| | Secondary forestry diversification (Bamboo/ Broom grass etc.) | | | | | | | | | | | | | |
| | Inrtroduction of settled agriculture farming | Modelling agroforestry system in *jhum* field for permanent agriculture<br>**Technology:**<br>**TO1:**<br>Two rows of banana & pineapple-1.5x1.5m &30x60x90cm<br>ii)uncleared patch of 5-10m at regular interval<br>iii)Bee box-7m apart<br>**TO2**: Farmers' Practice (Traditional farming) | ICAR,Umiam,Meghalaya(2017) | A | 3.20 | New Chalrang | April 2020 onwards | 2 | - | 2 | - | - | - | 2 |
| | Introduction of legume perennial crops in *Jhum* land | Hedgerows cropping of Arhar & Ginger<br>**Technology:**<br>**T01**: Hedgerows cropping of Arhar & Ginger<br>**T02**: Sole Ginger Spacing(Ginger) 30x30 cm, Arhar-15cmx5m | Assam Agricultural University, Jorhat, Assam (2015) | A | 1.50 | Changel zawl, Tuisen phai | April2020 onwards | 3 | - | 3 | - | - | - | 3 |

| Mandated activities | Thematic Area | Name of Technology | Source and Year of release | Crop/Cropping system | Area (in ha.) | Location | Period and Duration | Number of beneficiaries/ demon. | | | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SC/ST | | | General | | | |
| | | | | | | | | M | F | Total | M | F | Total | |
| Front Line Demonstration | Introduction of MPTs in existing Systems | | | | | | | | | | | | | |
| | Introduction of MPTs in newly Developed Systems | | | | | | | | | | | | | |
| | Introduction of high value crops/livestock in different systems | | | | | | | | | | | | | |
| | Reclamation of degraded area with MPTs etc. | | | | | | | | | | | | | |
| | Introduction of bio-fuel species/ tress | | | | | | | | | | | | | |
| | Canopy Management (Pruning/ Topping) | | | | | | | | | | | | | |
| | Secondary forestry diversification (Bamboo/ Broom grass etc.) | | | | | | | | | | | | | |
| | Introduction of Hedgerows farming | Pineapple based Hedgerows farming system **Technology: T01**: Hedgerows cropping of *Tephrosia candida* (5 m interval) and pineapple (30x60x90 cm) | Assam Agriculture University, Jorhat, Assam,2015 | Rainfed | 5 | Khawzawl, Biate, Chawngtlai | Aril 2020 onwards | 4 | 1 | 5 | - | - | - | 5 |
| | Introduction of Hedgerows farming | Ginger based Hedgerows farming system **Technology: T01**: Hedgerows cropping of *Tephrosia candida* (5 m interval)and Ginger (30x30cm) | Asam Agriculture University, Jorhat, Assam, 2015 | Rainfed | 4 | Khawzawl new chalrang, Chawngtlai | April2020 onwards | 3 | 2 | 5 | - | - | - | 5 |

| Mandated activities | Target group | Title of the training Programme and No. of Courses in bracket | No. of trainig | Period of the year | Duration (in days) | On/Off campus | Number of beneficiaries | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | SC/ST | | | General | | | Grand Total | |
| | | | | | | | M | F | Tot | M | F | Total | | |
| On and Off campus training programmes | Farmer and Farm women | Importance of nitrogen fixing trees(1) | 1 | 2020 | 3 days | On | 30 | 25 | 55 | - | - | - | 55 | |
| | | Concept on Sloping agriculture land technology(1) | 2 | 2020 | 3 days | Off | 40 | 20 | 60 | - | - | - | 60 | |
| | | An introduction to bee keeping(1) | 2 | 2020 | 3 days | Off | 30 | 20 | 50 | - | - | - | 50 | |
| | Rural Youth | Importance of nitrogen fixing trees(1) | 2 | 2020 | 1 day | On | 15 | 5 | 20 | - | - | - | 20 | |
| | | An introduction to bee keeping(1) | 2 | 2020 | 1 day | Off | 40 | 20 | 60 | - | - | - | 60 | |
| | Extn. Personnel | Concept on sloping agriculture land technology(2) | 1 | 2020 | 1 day | On | 8 | 2 | 10 | - | - | - | 10 | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO(including school drop-outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Vocational training programmes | Farmer and Farm women | Management of hedgerows in agroforestry farming model(1) | 2 | 2020 | 1 day | on | 10 | 5 | 15 | - | - | - | 15 | |
| | Rural Youth | | | | | | | | | | | | | |
| | Extn. Personnel | | | | | | | | | | | | | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO(school drop-outs) | | | | | | | | | | | | | |
| | Others (Pl. specify) | | | | | | | | | | | | | |
| Sponsored training programmes | | | | | | | | | | | | | | Sponsoring agency |
| | Farmer and Farm women | Beneficial effect of tree- crop combination(1) | 2 | 2020 | 2 days | Off | 25 | 5 | 30 | - | - | - | 30 | |
| | Rural Youth | Management of hedgerows in agroforestry farming model(1) | 1 | 2020 | 2 days | OFF | 20 | 10 | 30 | - | - | - | 30 | |
| | Extension Personnel | | | | | | | | | | | | | |
| | Civil Society | | | | | | | | | | | | | |
| | NGO | | | | | | | | | | | | | |

## Extension Activities of the KVK proposed for the year 2020

| Specific activity | No. of activities | Period of the year | Duration (in days) | Number of beneficiaries (No.) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SC/ST | | | General | | | Grand Total | |
| | | | | M | F | Total | M | F | Total | M | F |
| Diagnostic visit | 62 | 2020 | 1 day each | 180 | 45 | 225 | | | | 180 | 45 |
| Advisory services/ telephone talk | 450 | | | 300 | 150 | 450 | | | | 300 | 150 |
| Training Manual | | | | | | | | | | | |
| Celebration of Important days | 5 | | | 120 | 50 | 170 | | | | 120 | 50 |
| Exhibition | 1 | | 1 | 100 | 60 | 160 | | | | 100 | 60 |
| Exposure visit | 1 | | | 15 | 5 | 20 | | | | 15 | 5 |
| Extension literature (Leaflet/ folders/ Pamphlets) | 5 | | | | | | | | | | |
| Extension / technical bulletin | 10 | | | 150 | 50 | 200 | | | | | 200 |
| News letter | 1 | | | 100 | 50 | 150 | | | | | 150 |
| Newspaper coverage | 30 | | | | | | | | | | |
| Research publications | 3 | | | | | | | | | | |
| Success stories/ Case studies | 3 | | | | | | | | | | |
| Farm Science Clubs' Convenors meet | 1 | | | | | | | | | | |
| Farmers' Seminar | 1 | | 1 | 50 | 20 | 70 | | | | 50 | 20 |
| Farmers' visit to KVKs | 150 | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ex-trainees' meet | | | | | | | | | | | |
| Field day | 4 | | | 100 | 100 | 200 | | | | | 200 |
| Film show | 2 | | | | | | | | | | |
| Radio Talk | 0 | | | | | | | | | | |
| TV talk | 1 | | | | | | | | | | |
| Kishan Goshthi | 2 | | 1 day each | 50 | 10 | 60 | | | | 50 | 10 |
| Group Meeting | 4 | | | | | | | | | | |
| Kishan Mela | 1 | | | 100 | 60 | 160 | | | | 100 | 60 |
| Soil Health Camps | 2 | | | 40 | 5 | 45 | | | | 40 | 5 |
| Animal Health Camps | | | | | | | | | | | |
| Awareness camp<br>Mobile Agro-Advisory (Messages/ Beneficiaries) | 100 | | | 300 | 100 | 400 | | | | 300 | 100 |
| Method demonstration | 10 | | 1 day | 60 | 20 | 80 | | | | 60 | 20 |
| Scientists' visit to farmers' field | 62 | | 1 day each | 180 | 45 | 225 | | | | 180 | 45 |
| Workshop/ Seminar | 1 | | 1 day | 70 | 13 | 83 | | | | 70 | 13 |
| Soil Testing | 5 | | 1 day each | | | | | | | | |
| Water Testing | | | | | | | | | | | |
| Plant Testing | | | | | | | | | | | |
| Manure Testing | | | | | | | | | | | |
| Distribution of SHCs | | | | | | | | | | | |
| Any other (Pl. Specify) | | | | | | | | | | | |

**ACTIVITY CALENDAR OF THE KVK (MONTH-WISE TARGET TO BE COMPLETED) FOR THE YEAR 2020**

**KVK: Champhai District**

| Activity/ Month | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **OFT (Nos.)** | | | | | | | | | | | | | |
| **i.** Number of Technologies | 1 | 3 | 1 | 3 | | | 1 | | | 1 | | | |
| i. Number of Trials | 3 | 8 | 3 | 9 | | | 3 | | | 3 | | | |
| ii. Area (ha)/ items (no.) | 1.5 | 5.9 | 1.2 | 6.65 | | | 1 | | | 1 | | | |
| **FLD (Nos.)** | | | | | | | | | | | | | |
| i. Number | 10 | 5 | | 6 | | 2 | 1 | | | 1 | 10 | | |
| ii. Area(ha)/ items (no.) | 2 | 9 | | 9 | | 0.45 | 20 | | | 4 | 5 | | |
| **Training programme** | | | | | | | | | | | | | |
| **A. Farmer** | | | | | | | | | | | | | |
| i. No. of course | | 1 | 5 | 5 | 7 | 5 | 9 | 6 | 4 | | | | |
| ii. No. of participants | | 20 | 235 | 90 | 230 | 60 | 290 | 205 | 175 | | | | |
| **B. Rural Youth** | | | | | | | | | | | | | |
| i. No. of course | | | | | 3 | 2 | 4 | 4 | 1 | | | | |
| ii. No. of participants | | | | | 30 | 58 | 90 | 157 | 45 | | | | |
| **C. Ext. Personnel** | | | | | | | | | | | | | |
| i. No. of course | | | | 2 | 1 | 2 | | 1 | | | | | |
| ii. No. of participants | | | | 35 | 7 | 10 | | 8 | | | | | |
| **Extension Activities/ programmes** | | | | | | | | | | | | | |
| i. No. of activities | | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | | | | |
| ii. No. of beneficiaries | | 7 | 17 | 38 | 4 | 24 | 26 | 13 | 21 | | | | |
| **Publications** | | | | | | | | | | | | | |
| i. | | | | | | | | | | | | | |
| **Seeds production (tonnes)** | | | | | 1 | 0.002 | | 4 | 2 | | | | 7.1002 |
| **Planting materials (Nos. in lakh)** | | | 0.6 | 0.15 | | | 0.15 | | | | | | 0.9 |
| **Livestock strains (No. in lakh)** | | | | | | | | | | | | | |
| **Fingerlings (No. in lakh))** | | | | | | | | | | | | | |
| **Bio-agents/ products (tonnes)** | | | | | | | | | | | | | |
| **Bio-fertilizers/ Vermicompost etc. (in Tonnes)** | | | | | | | 0.15 | | 0.1 | | 0.1 | | 0.35 |
| **Soil (No. of samples to be tested)** | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 120 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Soil (No. of farmers benefitted)** | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 240 |
| **Soil (No. of villages covered)** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| **No. of SHCs to be distributed to farmers** | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 240 |
| **Mobile Agro-Advisory (No. of Messages)** | | | | | | | | | | | | | |
| **Mobile Agro-Advisory (No. of Farmers)** | | | | | | | | | | | | | |