

On Farm Testing (Discipline–Wise Summary)

| Discipline | Crop/ enterprise | No. of Technology/ Social Concept | | No. of trials | | % of achieveme nt |
|---------------------|---------------------|--------------------------------------|---------|---|---|-------------------------|
| | | Assessed | Refined | Target | Achievement | |
| Horticulture | Broccoli | 1 | - | 6 | 6 | 100 |
| | Broadbeans | 1 | - | 6 | 6 | 100 |
| PBG | Fieldpea | 1 | - | 6 | 6 | 100 |
| | Rapeseed | 1 | - | 6 | 6 | 100 |
| Fishery | Fish | 1 | - | 4 | 4 | 100 |
| | Fish | 1 | - | 5 | 5 | 100 |
| Plant Protection | Chilli | 1 | - | 4 | 4 | 100 |
| | Rice | 1 | - | 4 | 4 | 100 |
| Animal Science | Poultry | 1 | - | 6 | 6 | 100 |
| | Poultry | 1 | - | 6 | 6 | 100 |
| Agri. extension | Pulses | 1 | - | 50 respondents | 50 respondents | 100 |
| Total | | 11 | | 53 trials & 50 respondents | 53 trials & 50 respondents | |

OFT on Performance evaluation of Broccoli Varieties (Horticulture)- 1st yr.

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | Area | Villages |
|-------------------|-------------------------------|---|---------------|------|-----------------------|
| Broccoli | Low yield of existing variety | TO1: Var. KTS1 Duration- 60-70 days, Yield potential- 16.5t/ha TO2: Var.TSX 0788 Duration- 60-65 days Yield potential- 15-17t/ha TO3: Var. Green magic Duration- 60-70 days, Yield potential- 11.5t/ha | 6 | 1 ha | Karong, Taphou Phymai |



| Parameters on Assessment | Results/ observation on selected parameters | | | Net return (Rs/unit) | B:C Ratio (GR/GC) |
|--------------------------|---|------------|---------|----------------------|-------------------|
| | TO1 | TO2 | TO3 | | |
| i. Weight of head (gm) | 720gm | 850gm | 600gm | TO1: 193000 | TO1:2.83:1 |
| ii. Yield | 99.5 q/ha | 122.5 q/ha | 82 q/ha | TO2:259240 | TO2: 3.39:1 |
| | | | | TO3: 142600 | TO3: 2.38:1 |

OFT Performance evaluation of broadbean var. PUSA Udit (Horticulture)- 1st yr.

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | Area (ha) | Villages |
|-------------------|----------------------------|--|---------------|-----------|-------------------------|
| Broadbean | Low yield of local Variety | TO1: Var. Pusa Udit Duration- 150 days Yield – 17.5 t/ha TO2: Local Var., Big seeded , Duration- 158-160 days, Yield – 12-13 t/ha TO3: Local Var., Small seeded, Duration= 155-160 days , Yield =10.5 t/ha | 4 | 1ha | Chawangking, J. Songtun |



| Parameters on Assessment | Result/ observation on selected parameters | | | Net return (Rs/ha) | B:C Ratio (GR/GC) |
|--------------------------|--|--------|----------|--------------------|-------------------|
| | TO1 | TO2 | TO3 | | |
| i. Plant height | 73cm | 65.2cm | 64.7 | TO1: 174650 | TO1: 3.84:1 |
| ii. No. of pods/plant | 95-100 | 85-90 | 60-70 | TO2: 139400 | TO2: 3.51:1 |
| iii. Yield | 157.4/ha | 130/ha | 90.9q/ha | TO3: 87350 | TO3: 2.78:1 |

OFT on Varietal performance of Fieldpea Var. VL Matar 47 (PBG)- 1st year

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | Area (ha) | Villages |
|-------------------|---|---|---------------|-----------|----------------------|
| Fieldpea | Poor varietal diversification of fieldpea | TO1: Var. : VL Matar 47 (Duration- 150-155 days, Potential yield = 14.17q/ha) TO2: Var.: Aman, (Duration- 120-125days, Potential yield = 20-22q/ha) TO3: Rachana, (Duration- 100-120 days, Potential yield = 16-18q/ha) | 6 | 1ha | Utonglok, New Saikul |



| Parameters on Assessment | Results/ observation on selected parameters | | | Net return (Rs/ha) | B:C Ratio (GR/GC) |
|--------------------------|---|------|------|--------------------|-------------------|
| | TO1 | TO2 | TO3 | | |
| 1. Plant ht. (cm) | 96.4 | 97.2 | 98.5 | TO1-38180 | TO1-1.85:1 |
| 2.No. of pods/plant | 15.8 | 15.2 | 15.7 | TO2-34680 | TO2-1.78:1 |
| 3. Yield | 12.1 | 11.3 | 11.2 | TO3-33280 | TO3: 1.74:1 |

OFT on Performance of late sown rapeseed variety TS- 67 in rice based cropping system (PBG)-2nd year

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | Area (ha) | Villages |
|-------------------|--|---|---------------|-----------|-------------------|
| Rapeseed | Non availability of late sown var. in rice based cropping sequence | TO1: Var. TS 67 (Duration – 90-95 days, Potential yield= 10-12q/ha, late sowing up to 1st week, Dec) TO2: var. M 27 (Duration – 90-95 days, Potential yield= 10-12 q/ha) TO3: (Farmers Practice) Local Yella | 6 | 1ha | Parsain, Toribari |



| Parameters on Assessment | Result/ observation on selected parameters | | | Net return (Rs/ha) | B:C Ratio (GR/GC) |
|--------------------------|--|---------|---------|--------------------|-------------------|
| | TO1 | TO2 | TO3 | | |
| 1.Plant height | 120.6cm | 118.4cm | 127.5cm | TO1:23498 | TO1:1.9:1 |
| 2.No. of seeds/pod | 71.5 | 68.8 | 60.4 | TO2:18698 | TO2:1.72:1 |
| 3.Yield | 8.2q/ha | 7.4q/ha | 6.2q/ha | TO3: 11498 | TO3: 1.45:1 |

OFT on IPM in chilli (Plant Protection)- 1st year

| Crop | Major problem diagnosed | Technology details | No. of trials | Area (ha) | Villages |
|--------|---------------------------------|--|---------------|-----------|-----------------------|
| Chilli | Insect pest (thrips, and mites) | TO1: i) Yellow or blue sticky trap (20 traps/acre), Beauveria bassiana @ 2g/l on first appearance of pest, two times at 10 days interval, ii) Imidachlorprid @ 0.3ml/L or emamectin 0.3ml/L, TO2: Application of wood ashes & cypermethrin @ 2ml/L water TO3: Application of Fipronil @ 0.1 % | 5 | 1ha | Nungang , and Siangai |



| Parameters on Assessment | Results/ observation on selected parameters | | | Net return (Rs/ha) | B:C Ratio (GR/GC) |
|---------------------------|---|----------|----------|------------------------|------------------------|
| | TO1 | TO2 | TO3 | | |
| i. Percent pest incidence | 12.2% | 31.5% | 34.3% | TO1-55750 TO2-40200 | TO1-2.6:1 TO2-2.1:1 |
| ii. Yield | 34.3q/ha | 25.2q/ha | 21.1q/ha | TO3- 36450 | TO3: 1.78:1 |

OFT on Management of rice gall midge in terrace cultivation (Plant Protection)- 1st yr.

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | Area (ha) | Villages |
|-------------------|-------------------------|---|---------------|-----------|----------------------------------|
| Rice | Rice gall midge | TO1: i) Application of Selective pyrazole insecticide Fipronil 75g a.i./ha., ii) Balanced nutrient application NPK @ 60:40:30 kg/ha TO2: Application of Super killer (Cypermethrin) @ 1ml/L water once. TO3: No application | 5 | 1ha | Mayangkhang, and M.Thana Village |



| Parameters on Assessment | Results/ observation on selected parameters | | | Net return (Rs/ha) | B:C Ratio (GR/GC) |
|---------------------------|---|----------|----------|--------------------------|--------------------------|
| | TO1 | TO2 | TO3 | | |
| i. Percent pest incidence | 13.6% | 27.4% | 28.3% | TO1: 58265 | TO1: 1.88:1 |
| ii. Yield | 42.2q/ha | 34.4q/ha | 26.1q/ha | TO2: 43150 TO3: 39257 | TO2: 1.7:1 TO3:1.66:1 |

OFT on Performance assessment of monosex Tilapia under monoculture system (Fishery)-2nd yr

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | Area | Villages |
|-------------------|--|--|---------------|--------|----------------------|
| Tilapia | Low diversification of cultured fish species | <p>TO1: Monoculture of Tilapia Stocking density: 20,000/ ha; Feeding rate: 3-5% body weight ; Feed : Pellet feed ; Culture period : 6 months</p> <p>TO2: TO1: Monoculture of C. Carp Stocking density: 20,000/ ha; Feeding rate: 3-5% body weight; Feed : Pellet feed; Culture period : 6 months</p> | 4 | 0.5 ha | Hengbung, T. Khullen |



| Parameters on Assessment | Results/ observation on selected parameters | | Net return (Rs/unit) | B:C Ratio (GR/GC) |
|--------------------------|---|---|--------------------------|---------------------------|
| | TO1 | TO2 | | |
| i. Growth rate | Average weight at 6 month = 500 gm Average length at 6 month = 18 cm | Average weight at 6 month = 350 gm Average length at 6 month = 15 cm | TO1= 73500 TO2= 39750 | TO1: 1.8:1 TO2: 1.43:1 |
| ii. Yield | Y=750kg/0.1ha | Y=525kg/0.1ha | | |

OFT on Performance evaluation of Pengba fish in composite culture system (Fishery)- 2nd yr

| Enterprise | Major problem diagnosed | Technology details | No. of trials | Area (ha) | Villages |
|------------------------------|---|---|---------------|-----------|--------------------|
| IMC, Exotic Carps and Pengba | Low diversification of culture fish sp. | TO1: Stocking of IMC, Exotic carp & pengba @ 8000 nos./ha, catla 10%, silver carp 10%, Rohu 30%, Pengba 10%, Mrigal 15%, C. carp 15% TO2: Stocking of IMC, Exotic carp @ 8000 nos./ha, catla 10%, silver carp 10%, Rohu 30%, Grass- 10%, Mrigal 10%, C. carp 20% | 5 | 0.5ha | Leilon, T. Khullen |



| Parameters on Assessment | Results/ observation on selected parameters | | Net return (Rs/unit) | B:C Ratio (GR/GC) |
|------------------------------------|--|--------------------------|---------------------------|--------------------|
| | TO1 | TO2 (Farmer practice) | | |
| i. Fish growth at monthly interval | Average weight at 5 and 10 month = 230 gm and 600 gm Average length at 5 month =12 cm and 19.4 cm | | T01= 26400 T02 = 24800 | T01=2.2 T02=1.9 |
| ii. Fish yield | Total Yield = 1200 kg/ha. | Total Yield = 1350 kg/ha | | |

OFT on Introduction of Kamrupa poultry (Animal Science)- 2nd yr

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | No. of units | Villages | Net return (Rs/Unit) | B:C Ratio (GR/GC) |
|-------------------|--|---|---------------|-------------------|------------------|----------------------------|-------------------|
| Poultry | Less availability & high price of local bird | TO1:Kamrupa birds (dual purpose, multicolored) TO2: Local (Non descript) | 6 | 6 (30 birds/unit) | Toribari & Purul | TO1=3477.50 TO2=1182.50 | 1:1.52 1:1.18 |

Results of Parameters

| Months | 1 | 2 | 3 | 4 | 5 | 6 |
|--------------------------|-----|-----|-----|------|------|------|
| TO1 | 492 | 618 | 935 | 1179 | 1298 | 1357 |
| TO2 | 332 | 490 | 681 | 842 | 914 | 1031 |
| * Av. live b. wt. in gm. | | | | | | |



OFT on Performance of Srinidhi poultry for increased poultry production (Animal Science)- 2nd yr

| Crop / Enterprise | Major problem diagnosed | Technology details | No. of trials | No. of units | Villages | Net return (Rs/unit) | B:C Ratio (GR/GC) |
|-------------------|--|---|---------------|-------------------|-------------------------|---------------------------|-------------------|
| Poultry | Low body weight gain and low egg productivity of local poultry | TO1:Srinidhi poultry (multicolored bird and good egg production) TO2: Local (Non descript) | 6 | 6 (30 birds/unit) | Wainem & Rikumai Taphou | TO1=6837.50 TO2=852.50 | 1:1.95 1:1.13 |

Results of Parameters

| Months | 1 | 2 | 3 | 4 | 5 | 6 |
|--------------------------|-----|-----|------|------|------|------|
| TO1 | 545 | 724 | 1015 | 1375 | 1611 | 1865 |
| TO2 | 328 | 476 | 642 | 796 | 857 | 987 |
| * Av. live b. wt. in gm. | | | | | | |



OFT on Study of extension gap in pulse production (Agricultural Extension)-1st yr

| Crop | Technology/ methodology/ Social Concept | No. of respond ents | Parameters on Assessment | Name of the village | Results on parameters | % increase over farmer practice |
|--------|--|---------------------------|-----------------------------|------------------------|---|---------------------------------------|
| Pulses | Impact assessment of extension gap in pulse production (Fieldpea) | 50 | Extension yield gap | CFLD demo village | i. Farmer plot av. Yield= 10.56/ha ii. Demo plot av. Yield= 14.82q/ha iii. Extension yield gap= 14.82-10.56= 4.26q/ha | 40.34% |