Annual Action Plan 2020

Presented By:

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Summary of Action Plan 2020

S. No	Activity	No. of Prorammes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	08	72	18	90
2	Front Line Demonstration	08	112	39	151
3	Cluster Front Line Demonstrations (O & P)	Oilseed -1 Pulses-1	21 82	06 18	27 (O) 100 (P)
4	Training Programmes	61	1168	467	1635
4.1	Farmers / Farm Women	36	650	290	940
4.2	Rural Youth	15	328	107	435
4.3	Extension Functionaries	10	190	70	260
5	Extension Activities (Major)	19	2200	650	2850
	Total	98	3655	1198	4853

Title of OFT	**Assess the performance of Post emergence (PoE) application of Herbicide in wheat crop At 35DAS**
Problem Identified	1. The conventional method of weed control (i.e. hoeing, handweeding) are very laborious expensive and time consuming 2. Heavy weed infestation in Wheat crop during critical crop weed competition resulted in low yield of Wheat. 3. Difficulty in weeding operation during continuous rains & labour availability for weeding 4. High cost of cultivation
Objectives	To assess the performance of clodinafop propargyl 15% + Meta sulfuron methyl 1% WP (Premix) on weed control and their economics
Micro-farming Situation	Sole Crop
Treatments	T_1: Farmer Practice (Conventional method)
	T_2: Application of Meta sulfuron methyl 20 % WP @ 0.004 a.i./ha PoE 30 DAS
	T_3: Spray Post emergence application of weedicide Combination of clodinafop propargyl 15% + Meta sulfuron methyl 1% WP (Premix)@ 0.4 kg/ha PoE 35 days after sowing.
No. of Trials	07
Source of Technology	Dr. PDKV, Akola
Critical Inputs to be used and its cost in Rs.	Weedicide Combination of clodinafop propargyl 15% + Meta sulfuron methyl 1% WP (Premix) and Meta sulfuron methyl 20 % WP. Cost of input 17500/- (Rs 2500/ Trial)
Observations to be recorded	Weed Control Efficiency (%),WI (%), Plant Height, No. of Tillers Per Meter, Grain yield (qha^{-1}), GMR, NMR & B:C ratio

Title of OFT	**Enhancing the productivity of pigeon by use of Gibberellic acid 90% a.i. spray.**
Problem Identified	**Low productivity of pigeon pea due to imbalance nutrient management. Lack of knowledge about PGR and ICM practices.**
Objectives	**To assess the performance of Gibberellic acid 90% a.i application at flowering and pod development stage.**
Micro-farming Situation	**Inter crop with soybean.**
Treatments	**T_1: Farmers practice (No use of PGR, not fallow seed treatment & balance nutrient)**
	T_2: foliar application of 1% Humic acid at flowering and pod development stage.
	T_3: Two spray of gibberellic acid 90% a.i. @ 25 ppm (13.9 g per ha) at flowering and pod development stage with integrated crop management.
No. of Trials	**07**
Source of Technology	**Dr. PDKV, Akola**
Critical Inputs to be used and its cost in Rs.	**Gibberellic acid 90% . Cost of input 5600/- (Rs 800/ Trial)**
Observations to be recorded	**Bio Mass(Qt/ha),Grain Yield (qha^{-1}), Plant Height, Grain Test Weight , GMR, NMR & B:C ratio**

Title of OFT	**Management of stem fly and girdle beetle on soybean**
Problem Identified	**Stem fly and girdle beetle infestation can cause 16-30% yield losses, if infestation occurs at seedling stage results in re-sowing of crop.**
Objectives	**1. To assess the feasibility of the technology recently developed** **2. To study the cost effective management of stem fly and girdle beetle on soybean**
Micro-farming Situation	**Inter crop with pigeon pea.**
Treatments	**T_1 - Farmers practice- Chlorpyrifos20 EC @20 ml, Triazophos 12 ml (Avg. 2-3 sprays)**
	T_2 - ETL based spraying of Ethion 50 EC @ 30 ml followed by Chlorantraniliprole 18.5 SC @ 2ml per 10 L water
No. of Trials	**13**
Source of Technology	**Dr. PDKV, Akola and CIB&RC, Faridabad**
Critical Inputs to be used and its cost in Rs.	**Ethion 50 EC and Chlorantraniliprole 18.5 SC. Cost of input 11700/- (Rs 900/ Trial)**
Observations to be recorded	**1. Per cent infestation of stem flies and girdle beetles in T1 and T2** **2. Cost of Plant Protection** **3. Recovery of yield of soybean** **4. Economics of stem fly management in all the treatments.**

Title of OFT	**Management of Pink bollworm in Bt cotton**
Problem Identified	**Severe infestation of pink bollworm on Bt cotton during 2017-18**
Objectives	**1. To assess the feasibility of the technology recently developed** **2. To study the cost effective management of pink bollworm in Bt cotton**
Micro-farming Situation	**Sole Crop**
Treatments	**T_1 - Farmers practice- Chlorantraniliprole 18.5 SC @ 3 ml, Chloropyrifos + Cypermethrin@ 30 ml, Emamectin benzoate 5SC @ 5 g, Flubendiamide 39.35 SC/10 lit water (Avg. 4 sprays)** **T_2 – Installation of pheromone traps @ 2/acre for monitoring at flower initiation, Spray Azadirachtin 300 PPM @50 ml/ 10 L water at flower initiation, 6 to 7 inundative releases of Trichogramma chilonis @60000/ acre, Plucking of rosette flowers, ETL based application of Thiodicarb 75 WP @ 20 gm. 10 L water at boll formation followed by Deltamethrin 2.8 EC @ 10 ml/ 10 L water**
No. of Trials	**13**
Source of Technology	**IPM Package for Cotton 2014, DPPQS, Faridabad**
Critical Inputs to be used and its cost in Rs.	**Pheromone traps @ 2/acre Azadirachtin 300 PPM Trichogramma chilonis, Thiodicarb 75 WP Deltamethrin 2.8 EC. Cost of input 19500/- (Rs 1500/ Trial)**
Observations to be recorded	**1. Per cent Green Boll damage** **2. Per cent loculi damage at harvest** **3. Yield qha^{-1}** **4. B: C Ratio**

Title of OFT	**Performance assessment of Tractor drawn stubble collector developed by PDKV, Akola in Yavatmal District.**
Problem Identified	Time requirement to collect cotton and Tur stalk is more and availability of labor is less.
Objectives	To assess the suitability of stubble collector for collecting the crop residues like cotton and other crop residues
Micro-farming Situation	Cotton/Crop residues
Treatments	T1 – Local practice (Manually)
	T2 – Tractor drawn stubble collector
No. of Trials	13
Source of Technology	Dr. PDKV Akola
Critical Inputs to be used and its cost in Rs.	Tractor drawn stubble collector developed by PDKV, Akola. Cost of critical input Rs. 25000/-
Observations to be recorded	- Field capacity (ha/hr) - Efficiency(%) - Cost of Operation (Rs./ha)

Title of OFT	**Performance of Drip lateral coiler developed by PDKV, Akola in Yavatmal District**
Problem Identified	**Smooth drip lateral coiling is not possible manually. Manual coiling of drip lateral reduces its life because of fold during its collection.**
Objectives	**To assess the suitability of drip lateral coiler to collect and fold the laterals.**
Micro-farming Situation	**Cotton/Vegetables**
Treatments	**T1 – Local practice (Manual)**
	T2 - Drip lateral coiler
No. of Trials	**13**
Source of Technology	**Dr. PDKV Akola**
Critical Inputs to be used and its cost in Rs.	**Drip lateral coiler developed by PDKV, Akola. Critical input cost. Rs 10,000/-**
Observations to be recorded	**- Field Capacity (ha/hr)** **- Cost of Operation (Rs/ha)**

Title of OFT	**Supplementation of black pepper (Piper nigrum) powder as a growth promoter in broiler chicken**
Problem Identified	**less live weight gain and low immune response**
Objectives	**To improve growth performance, immune response and profitability of broiler.**
Micro-farming Situation	--
Treatments	**T1 : Standard broiler diet**
	T2: Standard broiler diet with black pepper powder @0.05%(500gm/ton)
	T3:Standard broiler diet with black pepper powder @0.1%(1 kg/ton)
No. of Trials	**12**
Source of Technology	**MAFSU 2016-17**
Critical Inputs to be used and its cost in Rs.	**black pepper (Piper nigrum) powder. Cost of input 20,000/-**
Observations to be recorded	**1.Live weight gain** **2.B:C Ratio**

Title of OFT	**Effect of Feeding of Azolla pinnata on growth performance of ND Heifers**
Problem Identified	**less milk yield.**
Objectives	**To improve growth performance of ND heifers.** **To reduce the cost of feeding.**
Micro-farming Situation	--
Treatments	**T1 : Farmers Practice**
	T2: green fodder + dry fodder + concentrate + azolla (70:30)
	T3:green fodder + dry fodder + concentrate + azolla (75:25)
No. of Trials	**12**
Source of Technology	**Dr. PDKV, Akola.**
Critical Inputs to be used and its cost in Rs.	**1 kg mother culture of azolla. Cost of input 15,000/-**
Observations to be recorded	**1.Live weight gain** **2.B:C Ratio**

Front Line Demonstrations

Crop	Season	Purpose of demonstration	Farming situation	Variety	Area (ha)	No. of demonstrations	Critical Inputs Identified	Cost of critical inputs (Rs)	Parameters of observation
Oilseeds	Kharif	Seed treatment of Carboxin 37.5% + Thiram 37.5% for the management of soybean root rot	Irrigated	PDKV Kanchan (AKG-1109)	5.00	13	HaNPV 2% AS and Emamectin benzoate 5SG	2860/- (Rs. 220/ Trial)	Incidence of root rot, Cost of plant protection, Yield qha-1, GMR, NMR, B:C Ratio
Pulses Chick pea	Rabi	Integrated Crop Management (ICM) in Chick pea	Irrigated	PDKV Kanchan (AKG-1109)	20.00	50	Seed, Rhizobim and PSB	1,25,000/- (Rs. 2500/ Trial)	Grain yield & B:C ratio, No. of pod per plant, GMR, NMR, Plant height.
Chick pea	Rabi	Management of pod borer	Irrigated	PDKV Kanchan (AKG-1109)	5.00	13	HaNPV 2% AS and Emamectin benzoate 5SG	11,700/- (Rs. 900/ Trial)	Incidence of pod borer, Cost of plant protection, Yield qha-1, GMR, NMR, B:C Ratio
Cereals Sorghum	Rabi	Integrated Crop Management (ICM) in sorghum	Irrigated	PKV Kranti (AKSV13R)	10	25	Seed, Azatobactor and PSB	21,250/- (Rs. 850/ Trial)	Grain yield & B:C ratio, GMR, NMR, Plant height, Straw yield.

Front Line Demonstrations

Name of animal	Name of breed	Purpose of demonstration	Month of implementation	No. of demonstrations (Units)	No. of animals to be covered per unit	Critical Inputs Identified	Cost of critical inputs (Rs)	Parameters of observation
Cattle	Buffalo ND	Chealated mineral mixture improve health of buffalo. Its enhance growth , improve immunity, Digestion & fertility rate	September 2020	15	4 animal/ unit	Chealated mineral mixture	20,000	1.Milk yield (lit/Animal/ week) 2. B:C Ratio
Cattle	Cow ND	To increase milk yield.	October 2020	15	4 Animal/ unit	Azolla mother culture	15,000	1.Milk yield (lit/Animal/ week) 2. B:C Ratio

Front Line Demonstrations

Name of the implement to be demonstrated	Farming situation	Purpose of demonstration	Month of implementation	Area to be covered (ha)	No. of farmers to be covered	Critical Inputs Identified	Cost of critical inputs (Rs)	Parameters of observation
Mini Solar Tunnel Dryer	--	To Improve quality and to reduce drying time of red chillies	December 2021	--	10	Mini Solar Tunnel Dryer	10,000	-Drying time, hr - Temperature, degree centigrade
BBF planter	Rainfed	Farm Mechanization	June 2021	4.00	10	BBF planter	10,000	1.FieldCapacity (ha/hr) 2.Fuel consumption (lit/ha) 3. Yield t/ha

Front Line Demonstrations

Name of the Enterprise	Purpose of demonstration	Month of implementation	No. of demonstrations	No. of farmers	Critical Inputs Identified	Cost of critical inputs (Rs)	Parameters of observation
Nutritional Garden	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
Processing technologies	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
Etc	--	--	--	--	--	--	--
	--	--	--	--	--	--	--

Training programme

Name of Discipline	No. of courses			No. of participants		
	On	Off	Total	Male	Female	Total
Agronomy	04	07	11	245	85	330
Plant Protection	04	08	12	280	80	360
AHDS	02	02	04	80	40	120
Agri. Eng.	03	04	07	280	70	350
Agriculture Extension	01	01	02	45	15	60
Total	14	22	36	650	290	1220

Training programme

Name of Discipline	No. of courses			No. of participants		
	On	Off	Total	Male	Female	Total
Agronomy	02	01	03	63	12	75
Plant Protection	02	02	04	80	40	120
AHDS	03	01	04	75	25	100
Agri. Eng.	01	01	02	60	20	80
Agriculture Extension	02	00	02	50	10	60
Total	10	05	15	328	107	435

Training programme

Name of Discipline	No. of courses			No. of participants		
	On	Off	Total	Male	Female	Total
Agronomy	01	01	02	35	10	45
Plant Protection	01	01	02	25	05	30
AHDS	01	00	01	20	10	30
Agri. Eng.	01	01	02	65	15	80
Agriculture Extension	02	01	03	45	30	75
Total	06	04	10	190	70	260

Demonstration Unit

Name of the demonstration unit	Name of the product	Production target for the year 2020	Net profit expected (Rs)	Remarks if any
Nursery	--	--	--	--
Dairy	--	--	--	--
Poultry	--	--	--	--
Goatry	Goat	2 goat	18,000	--
Vermicompost	Vermi culture	35 kg	8,000	Based on farmers demand
Bio-products	Trichogramma	300	10,000	Based on farmers demand
Sericulture	Sampling	20,000	6,000	--
Mushroom	--	--	--	--
Others, if any planned	Azolla culture	150 kg	7,000	--

Instructional Farm

Total land with KVK : 20 ha

Land under cultivation : 10.5 ha

Plot No.	Plot area (ha)	Irrigation facility available (Yes/No)	Crop and Variety planned (Season wise)			Purpose of demonstration (Seed / bulk)	Net profit expected (Rs)	Remarks if any
			Kharif	Rabi	Summer			--
Plot 1	2.00	No	Soybean AMSMB-5-18	--	--	Seed	30,000	--
Plot 2	2.00	No	Soybean AMS-1001	--	--	Seed	30,000	--
Plot 3	3.00	No	Soybean NRC - 37	--	--	Seed	45,000	--
Plot 4	3.00	No	Black gram Black gold (AKU-10-1)	--	--	Seed	30,000	--
Plot 5	0.50	No	Crop cafeteria			--	--	--

Thank You

All of you

Have a nice day