Action Plan for 2024-25

1. On Farm Trials (Technology Assessment during 2024-25)

Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	No. of trials	Parameters to be studied
Fodder maize	Shortage of quality fodder, low yield of fodder crops	Assessing the performance of fodder maize variety Shalimar fodder maize-1 in Bandipora District	T_1= Local Maize T_2= Shalimar fodder maize-1	SKUAST-Kashmir	Seed	6 Kg	3	Biomass, silage quality
Brown Sarson	Low Yield, Low Oil Content	Response of different levels of sulphur on yield of Brown Sarson	T1: Farmers Practice (No sulphur) T2: 10Kg sulphur/ha T3: 20Kg sulphur/ha	SKUAST-Kashmir	Sulphur	- 1Kg 2Kg	3	Yield q/ha
Pran	Low Yields, immature fruits	Effect of NPK fertilization on growth and yield of Pran	T1-Farmers Practice- No application of fertilizers T2: Application of 100:80:60 Kg/ha of NPK	SKUAST-K	Urea DAP MOP	75g 100g 50g	3	Yield q/ha
Onion	Low Yields, Less Shelf Life	Evaluation of Onion cultivars for yield and storage characteristics	T1: Local Cultivars T2: Yellow Globe T3: Brown Spanish T4: Red Coral	SKUAST-K	Seed	200g	3	Bulb Size(g) Yield (q/ha)

2.. Frontline Demonstrations during 2024-25

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Name of the Hybrid or Variety	Source of Technology	Name of critical input	No. of Demo	Parameters to be studied
Cereals	Rice	Low yield, old varieties	Demonstration of SR-4 variety	Shalimar Rice -4	SKUAST-K	Seed	60	No.of filled grains per panicle, grain yield (Q/Ha), stover yield Q/Ha)
	Maize	Low production of indigenious method of cultivation.yield,	Variety, package of practice for higher yield in maize	SMC-4	SKUAST-K	Seed	20	No. of grains per cob, no. of rows per cob, grain yield (Q/Ha),
	Maize	Low production of indigenious method of cultivation.yield,	Variety, package of practice for higher yield in maize	SMC-3	SKUAST-K	Seed	40	No. of grains per cob, no. of rows per cob, grain yield (Q/Ha)
	Maize	Low production of	Variety, package of	SMC-7	SKUAST-K	Seed	10	No. of grains per cob, no. of rows

		indigeniousmethod of cultivation.yield,	practice for higher yield in maize					per cob, grain yield (Q/Ha),
Oilseeds	Brown Sarsoon	Low yield, less oil content	Demonstration of Shalimar Sarsoon -2 variety	Shalimar Sarsoon -2	SKUAST-K	Seed	300	No of silqua per plant, no. of grains per silqua, seed yield (Q/Ha)
Pulses	moong	Low production	Demonstration of Shalimar Moong-2 variety	Shalimar Moong-2	SKUAST-K	Seed	30	No. of grains per pod, no. of pods per plant, grain yield (Q/Ha)
	Rajmash	Low production	Demonstration of Shalimar Rajmash-1 variety	Shalimar Rajmash-1	SKUAST-K	Seed	30	No. of grains per pod, no. of pods per plant, grain yield (Q/Ha)
	Cow pea	Low production	Demonstration of Shalimar Cow pea-2 variety	Shalimar Cow pea-2	SKUAST-K	Seed	5	No. of grains per pod, no. of pods per plant, grain yield (Q/Ha)
	pea	Low production	Demonstration of Shalimar pea-1 variety	Shalimar pea-1	SKUAST-K	Seed	50	No. of grains per pod, no. of pods per plant, grain yield (Q/Ha)
Horticultural crops	Coriander	Old Varieties, Low Yields	High Yielding Varieties	Shalimar Dhaniya-1	SKUASt-K	Seed	30	Yield/ha
	Methi	Old Varieties, Low Yields	High Yielding Varieties	Shalimar Methi-1	SKUAST-K	Seed	30	Yield/ha
Livestock	poultry	Low body weight gain, low egg production	Performance of keystone golden varieties of poultry birds under backyard farming system.	Kroiler/ keystone golden	SKUAST K	Poultry chicks	03	Mortality, egg production, body weight gain
Others	oats	Low yield	Demonstration of oats variety Shalimar oats-1	Shalimar oats-1	SKUAST K	Seed	60	Seed yield, stover yield

3. Training for Farmers/ Farm Women during 2024-25

Thematic area	Crop / Enterprise	Major problem	Training Course Title**	No. of Courses	Expected No. of participants
Crop Production	**Fodder**	Shortage of quality fodder during winter months	Preservation of feed and fodder	02	50

	Seed production	Lack of quality seed	Development of Seed and Seed multiplication Chain	02	60
	Crop Management	Lack of knowledge about Practices	Integrated crop management of cereal crops	02	60
	Millets	Lack of Knowledge	Production technology of millets	02	60
	Brown Sarson	Low Yields	Scientific cultivation of oilseeds	01	30
	Rice	Low yields/ old varieties	Scientific Nursery management in Rice	01	25
	Maize	Old varieties	Scientific cultivation of Maize – Pulses Inter Cropping system	01	30
	Pulses	Old Varieties/ low yield	Scientific Cultivation of Pulses	01	35
	Brown Sarson	Low Yield	Scientific cultivation of Brown Sarson	02	60
	Fodder Oats	Low yield	Scientific cultivation of fodder Oats	02	60
	Pulses		Scientific cultivation of rabi pulses	01	30
Horticulture Production	Vegetables	Lack of awareness	Nutri-Gardening.	02	40
	Vegetables	Lack of expertise	Protected cultivation in vegetable crops.	02	40
	Vegetables	Lack of expertise	Nursery raising of vegetable crops.	02	40
	Vegetables	Lack of awareness	Scientific cultivation of exotic vegetables	02	40
	Cucurbits	Low Yield	Production Technology of Cucurbits	02	40
Livestock Production	Poultry	Low body weight gain, low egg production	Backyard poultry rearing	02	60
	Dairy cows	Unhygienic milking practices,	Clean milk production	02	60
Capacity Building Group Dynamics		No farming decision	Awareness programme on potential / prospects of Agriculture & allied sectors in employment generation for rural youth(poultry / nursery raising/dairying)	02	30
		Lack of knowledge and orientation about FPO	Awareness cum training programme for women Empowerment through SHGs	02	30
			Initiatives for reducing drudgery to farm women in consultation with College of Agri. Engineering, SKUAST-K	02	30
			Sensitization, Significance and method for formulation of Farmer-Producer- organizations (FPOs).	02	30
			Handy information regarding various flagship programmes /schemes being implemented by GoI for the benefit of the farming community	02	30

4. Training for Rural Youth during 2024-25

Thematic area	Crop / Enterprise	Major problem	Training Course Title**	No. of Courses	Expected No. of participants
Crop production	Vegetables crops	Lack of expertise	Vegetable production under protected condition	02	40

Crop production	Lotus	Lack of expertise	Scientific Cultivation of Lotus (Nadroo)	02	40
Production of inputs at site	Vermi-technology	Lack of Awareness	Vermi-composting	03	30
Integrated farming	Sustainable Agriculture	Degradation of soil health	Integrated farming system	01	20
Poultry Production	Poultry	Poultry Rearing	Scientific methods of poultry rearing	02	20
Horticulture	Fruit Crops	Lack of training	Establishment of fruit plant nursery for production of HD planting material	01	20
Mushroom	Mushroom	Lack of skill for production of mushroom	Production technology of button Mushroom cultivation	01	20

5. **Trainings for Extension Personnel during 2024-25**

Thematic area	**Training Course Title****	**No. of Courses**	**Expected No. of participants**
Crop Production	Production technology of millets	01	30
	Seed multiplication in Cereals	01	30
	Importance of farm mechanization in agricultural crops	01	30
	Integrated farming system for sustainable crop production	01	30
	Scientific Nursery management in Rice	01	30
	Scientific cultivation of Brown Sarson	01	30
	Seed Production in Oats	01	30
	Production technology of sweet corn	01	30
Capacity Building and Group Dynamics	Formulation of Farmers Producers Organizations (FPOs) – Role & responsibilities of different stakeholders	05	30-40
	procedures of soil sampling and benefits of soil health card	01	10
	Promotion of sericulture through Research and Extension	01	30
	Agriculture marketing, issues, challenges and public initiatives for increasing farmer's rupee in consumer price.	01	30-40
	Innovative Extension methodologies for propagating, dissemination of University Technologies	01	45
Horticulture	Scientific Cultivation of Exotic Vegetables	01	30
	Commercial Floriculture	01	30
	High Density Plantation of Temperate Fruits	01	30
	Mushroom Cultivation	01	30
Livestock Production & Management	Steps towards self-sufficiency of Mutton in Bandipora	01	30
	Fodder –Production Technology	01	30
	Poultry development in Bandipora	01	30

Plant Protection	Minimizing Pesticide use in Horticultural Crops	01	30
Farm Mechanization	Farm Mechanization	01	30
PHT and value addition	Food Processing	01	30
Sericulture	Promotion of Sericulture	01	30
Fisheries	Trout Farming	01	30

6. Vocational trainings during 2024-25

Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth etc.)	Expected No. of participants
Home Science	Cutting and Tailoring	6 months	Rural Girls	20

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7 . Extension programmes

S.No	Extension programme*	No. of programmes or activities	Expected No. of participants	Names of the team members involved
1.	Advisory Services	As per need	1500	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
2.	Diagnostic visits	As per need	500	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
3.	Field Day	10	400	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
4.	Group discussions	20	300	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
5.	Kisan Ghosthi	6	400	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
6.	Film Show	10	500	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
7.	Self -help groups	2	50	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
8.	Kisan Mela	2	500	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
9.	Exhibition	1	250	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
10	Scientists' visit to farmers field	100	1000	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
11	Plant/Soil health/Animal health camps	10	500	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
12	Farmers' seminar/workshop	1	100	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
13	Method Demonstrations	50	500	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
14	Celebration of important days	10	500	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
15	Special day celebration	2	200	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
16	Exposure visits	10	300	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
17	Technology week,			Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
18	FFS	1	15	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
19	Farm innovators meet	1	50	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik
20	Awareness programs	20	1000	Dr Tariq sultan, Dr Tahir Saleem, Dr. Hilal Ahmad Malik

16.2 Technological Products to be produced at Farm

Category	Name of the product	Quantity (Qtl.)/ Number planned to be produced during 2024-25
Seeds	Paddy seed	400 q
	Moong seed	3 q
	Rajmash	4q
	Oats	10 q
	Oil seed (Brown sarsoon)	10 q
Planting materials	Vegetable Seedlings	4 lakh
	Willow Saplings	3000
Bio-products	Vermicompost	60q