

# **KRISHI VIGYAN KENDRA JAMMU**



## **ACTION PLAN: 2019-20**

**(Directorate of Extension)**

Sher-e-Kashmir

University of Agricultural Sciences and Technology  
Jammu

*Email: [kvkjammu@gmail.com](mailto:kvkjammu@gmail.com) Website: [www.kvkjammu.nic.in](http://www.kvkjammu.nic.in) Call at :01923-252929*

**ACTION PLAN OF KVK JAMMU - 2019-20**

**1. GENERAL INFORMATION ABOUT THE KRISHI VIGYAN KENDRA**

1.1	Name and address of KVK with Phone, Fax and e-mail	:	Krishi Vigyan Kendra, Jammu, SKUAST-J, .
1.2	Name and address of host organization	:	Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Main Campus, Chatha, Jammu
1.3	Year of sanction	:	1992
1.4	Website address of KVK and date of last update		<a href="http://www.kvkjammu.nic.in">www.kvkjammu.nic.in</a> (Jan, 2019)

**2. DETAILS OF STAFF AS ON DATE**

Sl. No.	Sanctioned post	Name of the incumbent	Age	Discipline with highest degree obt.	Pay Band & Grade Pay (Rs.)	Present basic (Rs.)	Date of joining at present post	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Sr Scientist & Head	Vacant	-	-	-	-	-	-	-
2	Senior Scientist (SMS)	Dr. Rakesh Sharma	44	Ph.D Ag. Ext.	131400-217100 (Level 13 A)	139400	May 2017	Temporary	Gen
3	Senior Scientist (SMS)	Dr. Punit Choudhary	43	Ph.D Forestry	131400-217100 (Level 13 A)	139400	May 2017	Temporary	Gen
4	Subject Matter Specialist	Dr Sheetal Badyal	46	Ph.D Home Science	79800-211500 (Level 12)	98200	Mar 2018	Temporary	Gen
5	Subject Matter Specialist	Dr Ravneet Kour	46	Ph D Vegetable Sciences	56100-177500 (Level 10)	89900	March 2019	Temporary	Gen
6	Subject Matter Specialist	Dr. Prem Kumar	44	Ph D Fisheries	68900-205500 (Level 11)	71000	May 2010	Temporary	Gen
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-	-
8	Programme Assistant (Comp)	Sh. Ashish Katoch	44	M. Tech	35400-112400 (Level 6)	60400	Dec.2003	Temporary	Gen
9	Programme Assistant (Farm)	Sh. Raju Gupta	38	Ph.D Agronomy	35400-112400 (Level 6)	47600	Aug.2008	Temporary	Gen
10	Programme Assistant (Trg)	Ms. Poonam Abrol	30	M.Sc. H. Science	35400-112400 (Level 6)	42300	June 2012	Temporary	Gen
11	Accountant / Superintendent	S Ashok Kumar	58	MA LLB	44900-142400 (level 7)	53600	Jan 2019	Temporary	Gen
12	Stenographer	Samir Ji Raina	45	Gradation	25800-81100 (Level 4)	27100	Jan 2019	Temporary	Gen
13	Driver	Sh. Manohar Lal	48	Matric	25800-81100 (Level 4)	27900	Sept. 2015	Temporary	SC
14	Driver	Sh Vijay Kumar	39	Matric	25800-81100 (Level 4)	27900	March 2019	Temporary	Gen
15	Supporting staff	Sh. Satnam Singh	43	Under Matric	14800-47100 (Level SL-1)	24800	July 2005	Temporary	Gen
16	Supporting staff	Vacant	-	-	-	-	-	-	-

### 3. DETAILS OF SAC MEETING CONDUCTED DURING 2018-19

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2019-20
3.1	18-03-18	<ul style="list-style-type: none"> <li>• KVK Jammu to expand its area of work in entire agriculture sectors involving livestock, apiculture, sericulture, fisheries etc.</li> </ul>	<ul style="list-style-type: none"> <li>• KVK Jammu is conducting all extension activities in collaboration with all line departments covering maximum blocks of the district.</li> </ul>	25-09-2019
		<ul style="list-style-type: none"> <li>• Well planned action plan covering all sector of agriculture for mitigating and addressing farmer's issues.</li> </ul>	<ul style="list-style-type: none"> <li>• KVK Jammu has formulated action plan on the basis of farmer's needs and issues identified through PRA's village surveys, farmer's scientist interaction and feedback.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Proper feedback of the training programmes imparted by KVKs and further documentation of constraints and success stories.</li> </ul>	<ul style="list-style-type: none"> <li>• Success stories are being regularly published by KVK Jammu. Moreover feedback of farmers is regularly taken.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Maximum enrollment of the new farmers on the portal</li> </ul>	<ul style="list-style-type: none"> <li>• KVK Jammu is regularly uploading the list of farmers on portal.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Identification of village for poultry development</li> </ul>	<ul style="list-style-type: none"> <li>• One village will be selected and backyard poultry birds will be distributed to farm families as FLD in collaboration with FVSc &amp; AH SKUAST-J and Department of Animal Husbandry Jammu..</li> </ul>	

### 4. CAPACITY BUILDING OF KVK STAFF

#### 4.1. Plan of Human Resource Development of KVK personnel

S. No	New Areas of Training	Institution proposed to attend	Justification
4.1.1	Protected Cultivation	Department of plasticulture, IARI, New Delhi	Thrust is being given to high value crops and intensive farming.
4.1.2	Fodder Banks and Hydroponic Culture	IGFRI, Jhansi	To generate round the year fodder.
4.1.3	Innovative Extension Methodology	IARI/NAARM	Impact analysis, demand projection, documentation
4.1.4	Processing and Value Addition	CIPHET and PAU Ludhiana	Value addition
4.4.5	Bio flock and RAS	CIFE Mumbai	Intensive fish farming

#### 4.2. CROSS-LEARNING ACROSS KVKs

S. No	Name of the KVK proposed	Specific learning areas
4.2.1	Within ring – Gurdaspur	Seed and planting material production
4.2.2	Within the zone – Jalandhar	IFS
4.2.3	Outside zone – Ujawa / Gurgaon	Urban agriculture

#### 5. PROPOSED CLUSTER OF KVKs (3 TO 5 NEIGHBORING KVKs) TO BE FORMED FOR SHARING KNOWLEDGE/EXPERTISE, RESOURCES AND ACTIVITIES

S.No.	Name of the KVKs included in the cluster	What do you intend to share with Cluster KVKs	What do you expect from Cluster KVKs
5.1	Kathua	On farm trials on Basmati	New interventions in paddy/wheat
5.2	Samba	FLD's/OFT's on Basmati	Pulse /oilseed seed
5.3	Gurdaspur	Basmati cultivation	Pulses seed and planting material.

#### 6. OPERATIONAL AREAS DETAILS PROPOSED

S.No	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)
6.1	Paddy (Basmati 370)	<ul style="list-style-type: none"> <li>Low yield of paddy</li> <li>Lack of labour</li> <li>Poor nutrient and weed management.</li> <li>Lodging</li> </ul>	18000 ha	<ul style="list-style-type: none"> <li>R. S.Pura</li> <li>Arnia</li> <li>Kotla</li> <li>Garkhal</li> </ul>	<ol style="list-style-type: none"> <li>Direct seeded rice/ drum seeder (OFT)</li> <li>FLD's on improved Basmati variety.</li> <li>Training Programmes and extension activities.</li> </ol>
6.2	Paddy (Non-Basmati)	<ul style="list-style-type: none"> <li>Lack of high yielding varieties.</li> </ul>	8000 ha	<ul style="list-style-type: none"> <li>Nagrota</li> <li>Pragwal</li> <li>Bishnah</li> </ul>	<ol style="list-style-type: none"> <li>Introduction of new and high yielding varieties of Paddy. (OFT/FLD)</li> </ol>
6.3	Wheat	<ul style="list-style-type: none"> <li>Lack of new high yielding varieties.</li> <li>Problem of yellow rust and smut diseases</li> <li>Lack of proper weed management.</li> </ul>	20000 ha	<ul style="list-style-type: none"> <li>R.S.Pura</li> <li>Dansal</li> <li>Bhalwal</li> <li>Arnia</li> <li>Bishnah</li> </ul>	<ol style="list-style-type: none"> <li>Introduction and evaluation of new varieties. (OFT/FLD).</li> <li>Introduction of Yellow rust resistant varieties in wheat (OFT/FLD)</li> <li>Weed management in Wheat.</li> </ol>
6.4	Maize	<ul style="list-style-type: none"> <li>Lack of composite varieties.</li> <li>Lodging in maize,</li> <li>Disease and pest Management.</li> <li>Poor weed management</li> </ul>	5000 ha	<ul style="list-style-type: none"> <li>Panjoa/ Sagoon</li> <li>Bhalwal</li> <li>Nagrota</li> </ul>	<ol style="list-style-type: none"> <li>Promotion of Composite Varieties. (FLD)</li> <li>Promotion of hybrid maize (FLD)</li> <li>Disease/pest/weed Management. (OFT)</li> <li>Training Programmes and extension activities</li> </ol>

6.5	Pulses	<ul style="list-style-type: none"> <li>• Weed Management problem.</li> <li>• Poor knowledge on pest management.</li> <li>• Lack of new varieties.</li> </ul>	2000 ha	<ul style="list-style-type: none"> <li>• R.S.pura</li> <li>• Bishnah</li> <li>• Sungal</li> <li>• Marh</li> <li>• Nagrota</li> <li>• Pragwal</li> </ul>	<ol style="list-style-type: none"> <li>1. Weed Management in Pulses. (OFT)</li> <li>2. Demonstrations of High yielding varieties. (Cluster FLD.s)</li> <li>3. Demonstration of biofertilisers/pheromone traps.</li> <li>4. Training programmes and extension activities</li> </ol>
6.6	Oilseed	<ul style="list-style-type: none"> <li>• Lack of high yielding varieties</li> </ul>	2000 ha	<ul style="list-style-type: none"> <li>• Bishnah</li> <li>• Marh</li> <li>• R S Pura</li> <li>• Bhalwal</li> </ul>	<ol style="list-style-type: none"> <li>1. Promotion of newly released varieties. (FLD)</li> <li>2. Training programmes and extension activities</li> </ol>
6.7	Fodder	<ul style="list-style-type: none"> <li>• High fodder requirement.</li> <li>• High cost and transportation of Fodder.</li> <li>• Lack of fodder varieties,</li> </ul>	10000 ha	<ul style="list-style-type: none"> <li>• R.S.pura</li> <li>• Bishnah</li> <li>• Sagoon</li> <li>• Bhalwal</li> </ul>	<ol style="list-style-type: none"> <li>1. Introduction of Oats varieties. (FLD)</li> <li>2. Promotion of Hybrid napier and setaria grasses (FLD)</li> <li>3. Increasing knowledge on fodder banks and tree fodder. (Trainings/FLDs)</li> </ol>
6.8	Medicinal Plants	<ul style="list-style-type: none"> <li>• Low yields of traditional plants.</li> <li>• Lack of processing</li> </ul>	-	<ul style="list-style-type: none"> <li>• Mathwar</li> <li>• Rabta</li> <li>• Manwal</li> <li>• Chawa</li> </ul>	<ol style="list-style-type: none"> <li>1. Promotion and spread of high yielding strains. (FLD)</li> <li>2. Value addition of Harad/ Aonla</li> <li>3. Training Programmes and extension activities</li> </ol>
6.9	Marigold	<ul style="list-style-type: none"> <li>• Lack of commercial varieties.</li> <li>• Poor disease management.</li> <li>• Lack of marketing avenues.</li> </ul>	100	<ul style="list-style-type: none"> <li>• R.S.pura</li> <li>• Nagrota</li> </ul>	<ol style="list-style-type: none"> <li>1. Promotion of Pusa varieties.</li> <li>2. IPM in Marigold (OFT)</li> <li>3. Training Programmes and extension activities</li> </ol>
6.10	Mushroom	<ul style="list-style-type: none"> <li>• Price fluctuation</li> <li>• Disease management</li> <li>• Round the year mushroom cultivation.</li> </ul>	-	<ul style="list-style-type: none"> <li>• R.S.pura</li> <li>• Marh</li> </ul>	<ol style="list-style-type: none"> <li>1. Value addition in mushrooms to avoid glut.</li> <li>2. IDM in Mushroom (OFT)</li> <li>3. Round the year Mushroom cultivation. (Skill Trainings).</li> </ol>

6.11	Dairy	<ul style="list-style-type: none"> <li>• Low milk yields.</li> <li>• Low fat percentage</li> <li>• Poor feed management.</li> <li>• Poor animal health</li> </ul>	-	<ul style="list-style-type: none"> <li>• R.S.Pura</li> <li>• Bhalwal</li> <li>• Nagrota</li> </ul>	<ol style="list-style-type: none"> <li>1. Proper health and hygiene for animals (Trainings and demos)</li> <li>2. Proper feed preparation (Training)</li> <li>3. Clinical camps</li> </ol>
6.12	Fish	<ul style="list-style-type: none"> <li>• Imbalance nutrition</li> <li>• Poor management</li> <li>• Traditional practices</li> <li>• Improper seed stocking</li> </ul>		<ul style="list-style-type: none"> <li>• Pragwal</li> <li>• Bishnah</li> <li>• R S Pura</li> <li>• Nagrota</li> </ul>	<ol style="list-style-type: none"> <li>1. Proper balanced nutrition</li> <li>2. Composite fish farming (FLD)</li> <li>3. Training programmes and extension activities</li> </ol>

## 7. TECHNOLOGY ASSESSMENT DURING 2019-20

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Tech.	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
7.1	Paddy	Labour constraint/ Weed management	Effect of different weed management practices on growth and yield of direct seeded rice	T:1 Anilophos + Ethoxysulfuron 375g/ha +15g/ha at 15 DAS (Recommended Practice) T2: Pendimethalin @ 1.0 kg/ha (PE) fb bispyribac-sodium @ 30 g/ha at 25 DAS fb fenoxaprop-p-ethyl @ 60 g/ha (30 DAS) (New Intervention)	SKUAST-J	Weedicides		2000	2	4000	Weed count/ Yield	Dr Puniya Dr Punit
7.2	Paddy	Weed incidence	Effect of bispyribac herbicide for broad spectrum weed management in direct seeded basmati rice	T1; Anilophos + Ethoxysulfuron 375g/ha +15g/ha at 15 DAS (Recommended Practice) T2 :Bispyribac 30g/ha at 30 DAS (New Intervention)	SKUAST-J	Seed Weedicide		4000	1	4000	Weed count/m <sup>2</sup> Dry weight of weed (60 days after sowing) Grain yield	Dr Neetu Dr Rakesh
7.3	Asparagus	Improved variety	Evaluation of different accession of Shataver ( <i>Asparagus recemosus</i> )	T1: IC471923 T2:IC471922 T3:IC471899	SKUAST-J	Planting material	100 tubers	2000	4	8000	Growth Yield	Dr Punit Choudhary Dr Lalit M Gupta
7.4	Wheat	Weed infestation	Weed management	T1: (Farmers practice) T2: Metribuzin	SKUAST-J	Weedicides		2000	3	6000	Weed count/m <sup>2</sup> Dry weight	Dr Puniya Dr Punit Choudhary

7.5			practices in wheat	@210 g/ha (Recommended) T3:Carfentrazone @ 20 g/ha after 30 DAS (New intervention)						of weed (60 days after sowing) Grain Yield		
			T1: (Farmers practice) T2:Metribuzin @210 g/ha (Recommended) T3:Metsufluron @ 4 g/ha after 30 DAS (New intervention)	SKUAST-J	Weedicides		2000	3	6000	Weed count/m <sup>2</sup> Dry weight of weed (60 days after sowing) Grain Yield	Dr Puniya Dr Rakesh Sharma	
7.6				T1: (Farmers practice) T2:Metribuzin @210 g/ha (Recommended) T3: Metsulfuon + carfentrazone @ 25 g/ha after 30 DAS (New Inter.)	SKUAST-J	Weedicides		2000	3	6000	Weed count/m <sup>2</sup> Dry weight of weed (60 days after sowing) Grain Yield	Dr Puniya Dr Punit Choudhary
7.7	Black Gram	Weed infestation	Effect of weed management practices on yield of summer blackgram	T1: (Farmers practice) T2: Pendimethalin 1000 g/ha(Pre emergence) (Recommended Practice) T3:Imazethapyr + Pendimethalin 1000 g/ha (Pre-emergence) (New ntervention)	SKUAST-J	Weedicides		2000	3	6000	<ul style="list-style-type: none"> <li>• Weed count/m<sup>2</sup></li> <li>• Dry weight of weed (60 days after sowing)</li> <li>• Grain Yield</li> </ul>	Dr Amit Dr Punit Choudhary
7.8	Berseem	Weed infestation	Management of <i>Cuscuta</i>	T: Farmer Practice T2: crop rotation with cereals	SKUAST-J	Weedicides		1000	5	1000	<ul style="list-style-type: none"> <li>• Weed count/m<sup>2</sup></li> <li>• Dry weight of weed (60 days after</li> </ul>	Dr Punit Choudhary Dr Puniya



											sowing) • Grain Yield	
7.9	Maize	Weed infestation/ Labour shortage	Effect of different herbicides mixture on weed density and weed biomass at 60 DAS in maize at farmers field.	T1: Atrazine 1000 g/ha at 0-3 DAS T2: Tembotrione 120 g/ha+Atrazine 500 g/ha at 15-20 DAS T3: Atrazine 1000 g/ha as PE Fb tembotrione 120 g/ha	SKUAST-J	Weedicide		500	4	2000	• Grain Yield (q/ha) • Weed count/m2	Dr Puniya Dr Punit Choudhary
7.10	Fish	Imbalanced nutrition in fish Low production	Impact of feed supplement on fish production	T1: Mustard oil cake, Rice bran, home left etc. without any ratio (Farmer practice) T2: 50:50 Mustard oil cake and rice bran after soaking overnight (Recommended Practice) T3: T2+Mineral mixture	Feed supplementation (Mineral Mixture)	Mineral mixture bags	5 kg	600	4	2400	Yield	Dr Prem Dr Rakesh Dr Sheetal
7.11		Non adoption of new products Wastage of fish feed Low fish production	Assessment of floating feed on growth and production of fish	T1: Mustard oil cake, Rice bran, home left etc. without any ratio (Farmer practice) T2: 50:50 Mustard oil cake and rice bran after soaking overnight (Recommended Practice) T3: Commercial floating feed @ 3-5% of fish body weight	Pelleted and extruded floating feed	Floating feed	100 kg	4500	4	18000	Yield	Dr Prem Dr Punit

7.12	Knol Khol	Lack of improved variety	Evaluation of Knol - khol varieties under sub tropical conditions of Jammu	T1 = Farmer's practice T2 = White Vienna T3 = Pusa Virat	SKUAST-J	Seed/chemical	45 gm	500	4	2000	Yield	Dr Ravneet Kour Dr Sheetal
7.13	Cabbage	Severe disease incidence	Evaluation of disease resistant cabbage varieties	T1 = Farmer's practice T2 = Pusa Mukta T3 = Pusa Early Drum Head	SKUAST-J	Seed	45 gm	500	4	2000	Yield/disease incidence	Dr Ravneet Kour Dr Sheetal

### 8. Technology Refinement during 2019-20

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
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### 9. FRONTLINE DEMONSTRATIONS DURING 2019-20

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.1	Cereals	Paddy	Mixed seed of Basmati 370 Low yield	Pure seed Improved variety	Varietis	Basmat -370 RR 564 SJR-129	SKUAST-J	Seed	12 kg	2000	25	50000	Germination, Seed to seed maturity Yield	Dr. Rakesh Sharma Dr. Punit Choudhary
		Maize	Lack of superior hybrids/composite	SCH Composite	Hybrid Composite	Double dekalb. PMC-3	SKUAST-J	Seed	8kg	2000	25	50000	Germination, Grain yield Fodder yield	Dr. Punit Choudhary Dr. Rakesh Sharma
		Wheat	Diseases and low yields	Disease resistance HYV's	Varietis	HD 1105 HD 3086	IARI SKUAST-J PAU	Seed	40 kg	2000	25	50000	Germination, Disease incidence	Dr. Rakesh Sharma Dr. Punit

						Unnat 550							yield	Choudhary	
9.2	Oilseeds	Mustard/G sarson	Low yield/ Pest problem	New Varieties	Variety	RSPN 25 DGS-1 RSPR-01	SKUAST-J	Seed	2 kg	500	10	5000	Yield Pest incidence	Dr Ravneet Kour Dr Prem Kumar	
9.3	Pulses	Mash/Chick pea	Low yields/ Pest problem	New Varieties	Variety	PU 31/ GNG 1581 PBG-5	SKUAST-J PAU	Seed					Under Cluster demonstrations	Yield	Dr. Punit Choudhary Dr Ravneet Kour
9.4	Commercial crops	Mushroom	Lack of awareness	Preparation of compost/spawning and management	Variety	White button/ Dhingri	SKUAST-J	Spawn/bags/chemicals	10 bags	1000	20	20000	Yield	Dr. Sheetal Badyal Dr Prem Kumar	
9.5	Horticultural crops	Marigold  Aonla	Poor returns from cereals  Low yielding	Cultivation of Marigold  Introduction of improved cultivars	Variety/ Cultivar	Pusa narangi Pusa Basanti Desi gutti  NA-07/10 Kanchan	IARI/ SKUAST-J  SKUAST-J	Seed/chemicals  Saplings	1 kg  10 each	500  400	40  25	20000  10000	Yield  Survival Establishment	Dr Ravneet Kour, Dr Sheetal Badyal  Dr. Punit Choudhary Dr Ravneet Kour	
9.6	Livestock	Chicks	low income	Improved breed	-	-	SKUAST-J	Chicks	10 /family	500	50	25000	Income	Dr. Prem Kumar Dr Rakesh Sharma	
9.7	Fisheries	Fish Feed	Imbalance nutrition/ Wastage of feed ingredient	Pelleted fish feed	-	-	Pantnagar	Fish feed	50kg	1800	15	27000	Yield	Dr. Prem Kumar Dr. Punit Choudhary	

		Composite fish farming	Poor mngt./ Inefficient use of natural feed/ Low prodn.	Mixed fish species in recommended ratio	Species	Mixed fish species	ICAR	Fish feed	2000 no	1200	15	18000	Yield	Dr Rakesh Sharma
9.8	Fodder	Berseem Oats	Lack of improved variety Low yield	New Variety	Variety	Mascavi Sabzar, PLP-1	SKUAST-J SKUAST-K	Seed	10 kg 40 kg	3000 2000	10 5	30000 10000	Yield Yield	Dr. Punit Choudhary Dr Rakesh
9.9	Vegetable	Tomato Cauliflower	Low yield Low yield	New Variety New Variety	Variety Varieties	Pusa Divya PSBK-1	IARI IARI	Seed Seed	50.0 g 60.0g	2000 1000	10 20	20000 20000	Yield Yield	Dr Ravneet Kour Dr Sheetal Dr Ravneet Kour Dr Sheetal

**10 TRAINING FOR FARMERS/ FARM WOMEN DURING 2019-20**

S.No.	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (Assessment/Refinement/FLD)*	Training Course Title	No. of Courses	Expected No. of participants	Names of the team members involved
<b>10.1</b>	Crop Production	Paddy	Poor Crop management practices	OFT/FLD	1. Integrated Crop management in Rice	1	20	Dr Rakesh Dr Punit Dr Ravneet Kour Resource person
		Maize			2. Scientific Maize production technology	1	20	
		Oilseed/ Pulses			3. Scientific production Technology for pulses and oil seeds	1	20	
					4. Wheat production Technology	1	20	
<b>10.2</b>	Horticulture Production	Vegetables	Poor crop management	FLD	Scientific cultivation of solanaceous & Cole vegetables	2	40	Dr. Ravneet Kour
		Marigold	Poor crop management		Scientific cultivation of marigold.	1	20	Dr. Ravneet Kour
		Vegetables/ Fruits	Poor yield/ diseases		Management of fruit drop in Horti crops  Importance of INM in horticulture.  Disease management in summer vegetables  Nursery raising techniques of Kharif/ Rabi vegetables	5	100	Dr. Ravneet Kour
<b>10.3</b>	Livestock Production	Milch Animal	Poor management	<b>Trg</b>	De-worming and vaccination in Farm animals	1	20	Dr. Prem Resource person
					Improvement of nutritive value of low quality roughages	1	20	
					Management of parasitic diseases in animals	1	20	
<b>10.4</b>	Home Science	Vegetables/ Cereals	Poor Nutrition	FLD	Ensuring Nutritional security of the Farm family through Kitchen Gardening	2	40	Dr. Sheetal Badyal

					Mitigating Malnutrition in women and adolescent girls through dietary modification			
	Home Science	Mushroom	Poor resources		Agri based entrepreneurial activities for empowering farm women	1	20	Dr. Sheetal Badyal
	Home Science		Drudgery		Drudgery reducing technologies for household and agricultural operations	1	20	Dr. Sheetal Badyal
	Home Science	Vegetables /pulses	Poor Shelf life		Enhancing the nutritive and economic value of cereals and pulses through processing  Processing of locally available seasonal fruits and vegetables	2	40	Dr. Sheetal Badyal
<b>10.5</b>	Plant Protection							
<b>10.6</b>	Production of Inputs at Site	Vermicompost	Lack of awareness		Production and process of vermicompost	<b>1</b>	<b>20</b>	Dr Punit Choudhary
<b>10.7</b>	Soil Health and Fertility							
<b>10.8</b>	PHT and value addition	Fruits	Poor Shelf life		Value added products from mango  Value addition of Jamun	2	40	Dr. Sheetal Badyal
<b>10.9</b>	Capacity Building Group Dynamics	Mushrooms/ marigold/ Paddy	Marketing problems	FLD	Group approach to address marketing problems	1	20	Dr. Rakesh Sharma
		Paddy/Marigold/Mango	Crop failures	FLD	Sensitizing farmers to avail crop insurance against natural calamities	2	40	Dr. Rakesh Sharma
		Vegetables			Leadership development among rural youths	1	20	
		Harad Marigold Paddy			Entrepreneurial opportunities in vegetable growing.	1	20	
					Formation and management of SHGs.	1	20	
<b>10.10</b>	Farm Mechanization							
<b>10.11</b>	Fisheries Production Technologies	Govt. Schemes	Lack of knowledge		Various Govt. schemes to promote Aquaculture	1	20	Dr. Prem
		Fisheries	Lack of	FLD	Composite Fish Culture	1	20	Dr. Prem

			knowledge						
			Low Production		Carp breeding	1	20	Dr. Prem	
			Feed Management	FLD/OFT	Fish feed management of fry and fingerlings	2	40	Dr. Prem	
			Low production		Fish Feed Management Integrated fish farming	1	20	Dr. Prem	
<b>10.12</b>	Mushroom production								
<b>10.13</b>	Agro forestry	Fodder trees and grasses/ MPTs	Lack of knowledge	FLD	Nursery raising of prominent fodder trees and grasses/ MPTS	1	20	Dr. Punit Choudhary	
				FLD	Multipurpose trees and fodder grasses and bamboo: role and importance	1	20		
				FLD	Agroforestry for sustainable production	1	20		
				FLD/OFT	Scientific cultivation of fodder crops (Oats, barseem, bazra)	2	40		
	Medicinal and aromatic plants	MAPs/ Trees	Less cultivation	Lack of QLPM	FLD/OFT	Management of locally available Agroforestry trees and perennial grasses for sustaining fodder and food security in Kandi areas	1		20
					FLD	Production technology of economically important MPT's	1		20
					FLD/OFT	Cultivation of medicinal and aromatic plants (Aloe vera, Asparagus, lemon grass) for higher income.	3		60
					FLD	Cultivation of medicinal trees (Harad and Aonla) for higher income	2		40
					Post harvest handling and value addition	1	20		
<b>10.14</b>	Bee Keeping								
<b>10.15</b>	Sericulture								
	<b>Others, pl. specify</b>								

### 11. TRAINING FOR RURAL YOUTH DURING 2019-20

S.No.	Thematic area	Crop / Enterprise	Major problem	Linked field intervention (Assessment/Refinement/FLD)	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
11.1	Crop Production							
11.2	Horticulture Production	Vegetables & Fruits	-	-	Nursery raising as an enterprise.	1	20	Dr. Ravneet Kour
11.3	Livestock Production							
11.4	Home Science				Entrepreneurship development through skill training in basket making/ cushion making/ Tie & Dye	1	20	Dr. Sheetal Badyal Ms Poonam Abrol
11.5	Plant Protection							
11.6	Production of Inputs at Site							
11.7	Soil Health and Fertility							
11.8	PHT and value addition				Processing of seasonal fruits and vegetables for augmenting family income  Mushroom	1  1	20  20	Dr. Sheetal Badyal Ms Poonam Abrol
11.9	Capacity Building Group Dynamics							
11.10	Farm Mechanization							
11.11	Fisheries Production Technologies	Fisheries			Aquarium making as an entrepreneurial activity  Value addition of fresh & frozen fishes	1  1	20  20	Dr. Prem Kumar
11.12	Mushroom production							
11.13	Agro forestry	Harad, Aonla	Lack of planting techniques	FLD on improved planting materials of	Quality planting material production and Nursery raising an enterprise	1	20	Dr. Punit Choudhary



				medicinal trees				
11.14	Bee Keeping							
11.15	Sericulture							
	<b>Others, pl. specify</b>							

### 12 TRAININGS FOR EXTENSION PERSONNEL DURING 2019-20

S.No.	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
12.1	Crop Production	Role of Agroforestry in adaptation and mitigating climate change  Potential of medicinal & aromatic plants for higher income	2	40	Dr. Punit Choudhary Dr. Rakesh Sharma Dr. Ravneet Kour Dr. Sheetal Badyal Dr. Prem Kumar Ms. Poonam Abrol
12.2	Home Science	Processing of cereals & pulses  Mitigating malnutrition among pregnant lactating women & adolescent girls through integrated nutritive diets	2	40	Dr. Sheetal Badyal Dr. Rakesh Sharma Dr. Punit Choudhary Dr. Ravneet Kour Dr. Prem Kumar Ms. Poonam Abrol
12.3	Capacity Building and Group Dynamics	Marketing intelligence system  Credit Management & crop insurance	2	40	Dr. Rakesh Sharma Dr. Punit Choudhary Dr. Ravneet Kour Dr. Sheetal Badyal Dr. Prem Kumar Ms. Poonam Abrol
12.4	Horticulture	Common insect pests of fruit/vegetable crops.  Recent advances in nutrition of fruit crops	2	40	Dr. Ravneet Kour Dr. Rakesh Sharma Dr. Punit Choudhary Dr. Sheetal Badyal Dr. Prem Kumar Ms. Poonam Abrol
12.5	Livestock Production & Management				
12.6	Plant Protection				
12.7	Farm Mechanization				
12.8	PHT and value addition				
12.9	Production of Inputs at Site				
12.10	Sericulture				

<b>12.11</b>	Fisheries	Use of immunostimulants and probiotics in aquaculture for disease management  Fish feed formulation & management	2	40	Dr. Prem Kumar Dr. Rakesh Sharma Dr. Punit Choudhary Dr. Ravneet Kour Dr. Sheetal Badyal Ms. Poonam Abrol
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### 13. VOCATIONAL TRAININGS DURING 2019-20

Sl.No.	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	Sponsoring agency if any	Names of the team members involved
13.1	Crop Production						
13.2	Home Science	Mushroom grower	200 hrs ASCI	Youth	20	ASCI	Dr. Sheetal Ms Poonam
13.3	Capacity Building and Group Dynamics						
13.4	Horticulture						
13.5	Livestock Production & Management						
13.6	Plant Protection						
13.7	Farm Mechanization						
13.8	PHT and value addition						
13.9	Production of Inputs at Site	Vermicompost Producer	ASCI 200 hrs	Youth	20	ASCI	Dr Punit Dr Rakesh Ms Poonam
13.10	Sericulture						
13.11	Fisheries	Aquaculture worker	ASCI 200 hrs	Youth	20	ASCI	Dr Prem Dr Rakesh Ms Poonam

### 14 SPONSORED TRAININGS DURING 2019-20

Sl.No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women,	Expected No. of participants	Sponsoring agency	Names of the team members involved
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				<b>Youth etc.)</b>			
14.1	Crop Production						
14.2	Home Science	Preservation, processing and value addition.	2 (15 days)	SHG	50	CCS	Dr. Sheetal Badyal Ms Poonam Abrol
14.3	Capacity Building and Group Dynamics						
14.4	Horticulture	Commercial floriculture	2 (3 Days)	Youth	50	Dept of floriculture	Dr. Ravneet Dr. Rakesh Sharma
14.5	Livestock Production & Management						
14.6	Plant Protection						
14.7	Farm Mechanization						
14.8	PHT and value addition						
14.9	Production of Inputs at Site						
14.10	Sericulture						
14.11	Fisheries						

### 15. EXTENSION PROGRAMMES DURING 2019-20

Sl.No.	Extension programme*	No. of programmes or activities	Expected No. of participants	Names of the team members involved
15.1	Advisory Services	10	200	Dr Rakesh Dr Punit Dr Sheetal Dr Prem Dr Ravneet Ms Poonam
15.2	Diagnostic Visits	12	240	
15.3	Field Day's	6	240	
15.4	Group Discussions	02	50	
15.5	Kisan Ghosthi	02	50	
15.6	Film Show	10	1000	
15.7	Breast feeding day	01	250	
15.8	Kisan Mela	01	300	
15.9	Exhibition	05	1500	
15.10	Scientists' visit to farmers field	36	360	
15.11	Plant/Soil health/Animal health camps	06	200	
15.12	Farm Science Club	-	-	
15.13	Ex-trainees Sammelan	01	50	
15.14	Farmers' seminar/workshop	01	100	
15.15	Method Demonstrations	10	100	

15.16	Celebration of important days	05	100	Dr Rakesh Dr Punit Dr Sheetal Dr Ravneet Dr Prem Ms Poonam
15.17	Special day celebration	02	50	
15.18	Exposure visits	05	100	
15.19	Technology week,	01	100	
15.20	FFS			
15.21	Farm innovators meet	01	20	
15.22	Awareness programs	04	100	
	<b>Others, pl. specify</b>			
15.23	Seed Treatment campaigns	02	50	
15.24	Parthenium week	01	300	
15.25	Breast feeding week	01	200	
15.26	Farmer Scientist interaction	02	100	

## 16. ACTIVITIES PROPOSED AS KNOWLEDGE AND RESOURCE CENTRE DURING 2019-20

### 16.1 Technological knowledge

Sl.No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
16.1.1	Technology Park/ Crop cafeteria	HYV Cereals, Fodder, Pulses, Oilseed	0.1	Dr Rakesh Dr Punit Dr Raju
16.1.2	Demonstration Units	Vermicompost Mushroom Fish pond	0.05	Dr Punit Dr Rakesh Dr Prem Mr Raju
16.1.3	Lab Analytical services			
16.1.4	Technology Week	HYV Cereals, Fodder, Pulses, Oilseed, Floriculture, Value addition	0.5	Dr Rakesh Dr Punit Dr Sheetal Dr Ravneet Mr Raju

### 16.2 Technological Products

Sl.No.	Category	Name of the product	Quantity (Qtl./ Number planned to be produced during 2018-19	Names of the team members involved
16.2.1	Seeds	Wheat (Certified and Foundation) Paddy (B-370)	150.0 100.0	Dr Punit Mr. Raju Gupta
16.2.2	Planting materials	Medicinal/fruit Trees Grasses root slips	400 5000	Dr Punit Dr Ravneet Kour Mr Raju
16.2.3	Bio-products	Vermicompost	50.0	Dr Punit Mr Raju
16.2.4	Livestock strains			
16.2.5	Fish fingerlings	Composite fish	500	Dr Prem Kumar

**16.3 Technological Information**

	Category	Technological capsules / Number	Names of the team members involved
16.3.1	Technology backstopping to line departments		
	Agriculture	Organic basmati	Dr. Rakesh sharma Dr Punit Choudhary Dr Ravneet Kour
	Horticulture	IPM Planting material	Dr. Ravneet Kour Dr. Rakesh Sharma Dr. Punit Choudhary
	Animal Husbandry	Field problems	Dr Prem Kumar Resource persons
	Fisheries	Composite fish farming	Dr Prem Kunmar
	Agricultural Engineering	Field problems	Resource persons
	Sericulture	Field problems	Resource persons
	Others, pl. specify		
16.3.2	Literature/publication		Dr. Sheetal/Dr. Rakesh/ Dr. Punit/Dr Prem Kumar/Dr Ravneet Kour
16.3.4	Electronic Media	Radio talks	Dr. Sheetal/ Dr. Rakesh/Dr. Punit/Dr Prem Kumar/Dr Ravneet Kour
16.3.5	Kisan Mobile Advisory Services		
16.3.6	Information on centre/state sector schemes and service providers in the district.	Data may be collected from different agencies. Also indicate time of completion.	Dr. Rakesh/Dr. Punit/ Dr. Sheetal/ Dr Prem Kumar/Dr Ravneet Kour

**17. ADDITIONAL ACTIVITIES PLANNED DURING 2019-20**

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
17.1	RCFC NMPB sponsored programme	Production of quality planting material	FLD on superior Medicinal tree Interaction cum training programmes of different stake holders of Medicinal fruits of Jammu	600000	Dr Punit Choudhary Dr Rakesh Sharma
17.2	Agroforestry project	Plantation and extension programmes	Awareness programmes Plantations	400000	Dr Punit Choudhary Dr Rakesh Sharma
17.3	IIT sponsored Unnat bharat abhiyaan	Rural livelihood	All technical interventions for upliftment of rural livelihood.	150000 (released for 1 <sup>st</sup> quarter)	Dr. Rakesh Sharma Dr. Punit Choudhary Dr Sheetal Badyal Dr Prem Kumar
17.4	Doubling farmers income	ICAR	Technological intervention for doubling farmers income		Dr. Rakesh Sharma Dr. Punit Choudhary Dr Sheetal Badyal Dr Ravneet Kour Dr Prem Kumar

**18. REVOLVING FUND****18.1 Financial status**

Opening balance as on 01.04.2018 (Rs.in Lakh)	Expenditure incurred during 2018-19 (Rs.in Lakh)	Receipts during 2018-19 (Rs.in Lakh)	Closing balance as on 31.03.2019 (Rs.in Lakh)
53.87	2.17	2.62	57.20

**18.2 Plan of activities under Revolving Fund**

S.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
18.2.1	Digging of two borewells	Increased yields and quality	-	Dr Punit Dr Rakesh Dr Sheetal Dr Prem Kumar Mr Raju.

**19. ACTIVITIES OF SOIL, WATER AND PLANT TESTING LABORATORY DURING 2019-20**

Sl.No.	Type	No.of samples to be analyzed	Names of the team members involved
19.1	Soil	100	-
19.2	Water		
19.3	Plant		
19.4	Others		

**20. E-LINKAGE DURING 2019-20**

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
20.1	Title of the technology module to be prepared		
20.2	Creation and maintenance of relevant database system for KVK		
20.3	Any other (Please specify)		
20.4			

**21. ACTIVITIES PLANNED UNDER RAINWATER HARVESTING SCHEME (ONLY TO THOSE KVKs WHICH ARE ALREADY HAVING SCHEME UNDER RAIN WATER HARVESTING)**

S. No	Activities planned	Remarks if any
21.1		
21.2		

**22. INNOVATIVE FARMER'S MEET**

Sl.No.	Particulars	Details
22.1	Are you planning for conducting Farm Innovators meet in your district?	Yes
22.2	If Yes likely month of the meet	December
22.3	Brief action plan in this regard	All stakeholders will be invited.

**23. FARMER'S FIELD SCHOOL PLANNED -**

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.
23.1			

**24. BUDGET - DETAILS OF BUDGET UTILIZATION (2018-19) UP TO 31 MARCH 2019 (Rs.)**

SL. No	Budget Head	Sanctioned	Released	Expenditure	Balance
	Grant for creation of Capital Assets				
1	Works				
	A. Land Building				
	B. Building				
	(i) Office Building				
	(ii) Residential building				
	(iii) Minor Works				
2	Equipment's	100000.00	100000.00	95326.00	4674.00
3	Information Technology				
4	Library Books and Journals			-	
5	Vehicle & Vessels				
6	Livestock				
7	Furniture and fixtures				
8	Others	150000.00	150000.00	150000.00	0.00
	<b>Total-CAPITAL (Grants for creation of Capital Assets)</b>	<b>250000.00</b>	<b>250000.00</b>	<b>245326.00</b>	<b>46.74.00</b>
1.	Grant in Aid Salary				
	Pay and allowances	13385931.00	13385931.00	13385931.00	0.00
	<b>Total Pay and Allowances</b>	<b>13385931.00</b>	<b>13385931.00</b>	<b>13385931.00</b>	<b>0.00</b>
	Grant in Aid-General				
2	Travelling allowance (Domestic)	100000.00	100000.00	85562.00	14438.00
	Travelling allowance (Foreign)				
	<b>Total TA</b>	<b>100000.00</b>	<b>100000.00</b>	<b>85562.00</b>	<b>14438.00</b>
3	A. Research Expenses				
	B. Operational Expenses	1700000.00	1700000.00	1588248.00	111752.00
	C. Infrastructure				
	D. Communication				
	E. Other				
	F. Publicity and Exhibitions				
	G. Guest house maintenance				
	H. Other Misc				
	I. Repair and maintenance				
	(i) Equipment, Vehicle & Others				
	(ii) Office building				
	(iii) Residential building				
	<b>REVOLVING FUND</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>Total Recurring contingence</b>	<b>1700000.00</b>	<b>1700000.00</b>	<b>1588248.00</b>	<b>111752.00</b>
	<b>Grant in Aid-General (RC+TA)</b>	<b>1800000.00</b>	<b>1800000.00</b>	<b>1671791.00</b>	<b>126190.00</b>
	<b>Grant Total (capital+Salary+General)</b>	<b>15426511.00</b>	<b>15426511.00</b>	<b>15303048.00</b>	<b>140884.00</b>

**25. Details of Budget Estimate (2019-20) based on proposed action plan (Rs in Lac)**

SL. No	Budget Head	Other than TSP	TSP	SCSP	Total
	Grant for creation of Capital Assets				
1	Works				
	C. Land Building				
	D. Building				
	(iv) Office Building				
	(v) Residential building				
	(vi) Minor Works	0.0	0.0	5.0	<b>5.0</b>
2	Equipment's				
3	Information Technology	0.0	0.0	0.15	<b>0.15</b>
4	Library Books and Journals			-	
5	Vehicle & Vessels	8.0	0.0	0.0	<b>8.0</b>
6	Livestock				
7	Furniture and fixtures				
8	Others				
	Total-CAPITAL (Grants for creation of Capital Assets)	8.0	0.0	5.15	<b>13.15</b>
1.	Grant in Aid Salary				
	Pay and allowances	125.0			<b>125.0</b>
	Total Pay and Allowances	125.0			<b>125.0</b>
	Grant in Aid-General				
2	Travelling allowance (Domestic)	1.0			<b>1.0</b>
	Travelling allowance (Foreign)				
	Total TA	1.0			<b>1.0</b>
3	J. Research Expenses	0.0		18.85	
	K. Operational Expenses	0.0			
	L. Infrastructure	0.60			
	M. Communication	0.40			
	N. Other	0.40			
	O. Publicity and Exhibitions	0.0			
	P. Guest house maintenance	0.0			
	Q. Other Misc	0.40			
	R. Repair and maintenance				
	(iv) Equipment, Vehicle & Others	0.0			
	(v) Office building	0.20			
	(vi) Residential building	0.0			
	REVOLVING FUND	0.0			
	<b>Total Recurring contingency</b>	<b>2.0</b>	<b>0.0</b>	<b>18.85</b>	<b>20.85</b>
	<b>Grant in Aid-General (RC+TA)</b>	<b>3.0</b>	<b>0.0</b>	<b>18.85</b>	<b>21.85</b>
	<b>Grant Total (Capital+Salary+General)</b>	<b>136.00</b>	<b>0.0</b>	<b>24.0</b>	<b>160.0</b>