

# ICAR-ATARI, ZONE-XI, HEBBAL, BANGALORE

## PROFORMA FOR ACTION PLAN 2020-21

### GUIDELINES

**(Please read carefully before preparing action plan)**

1. It is mandatory to fill all the items of activities in the format. Further, additional activity/activities within the mandate which are relevant to increase income of farmers in the operational villages will be encouraged.
2. For the activities proposed to be continued, all the data of the previous year(s) must be presented, supported by visuals.
3. Please finalize the Doubling Farmers Income (DFI) document of the district first before taking up the action plan for 2019-20. Select villages and the technologies/interventions identified for DFI as the basis for Action Plan 2019-20.
4. Integrate all the ongoing major schemes like CFLDs, Seed Hub, NICRA, ARYA, Sujala, ASCI skill training, KKA etc as well as sponsored projects such as state/central sector projects, host organization activities and other agencies in the selected villages.
5. Villages where ongoing projects are implemented may be considered on priority as cluster villages (operational) for KVK action plan.
6. Household as a whole need to be emphasized with possible interventions to achieve significant increase in income within a short period of time. KVK can plan to cover all households in a phased manner.
7. Benchmark (baseline) data on extent of technology adoption, yield, cost and income must be clearly documented for the farm families covered so that the impact can be easily monitored and recorded after KVK interventions.
8. Decide on the number of households to be covered in each village based on schemes implemented and budget available.
9. Plan to involve all sections of the community and households (women, youth, SC/ST etc).
10. Action plan should include a combination of OFTs, FLDs, training and extension activities to achieve higher productivity/income.
11. Entire KVK team must be involved in the preparation of action plan for combination of interventions.
12. In the case of FLDs on varietal performance, ensure that the varieties / hybrids are not older than 10 years.
13. Vocational trainings, EDPs and Market interventions should be planned for value-chain oriented activities of the major crops/commodities.
14. Recommendations of SAC related to technical activities should be addressed in the action plan.

## ICAR-ATARI, ZONE –XI, HEBBAL, BENGALURU

### PROFORMA FOR ACTION PLAN OF KVKs IN ZONE XI FOR 2020-21

#### 1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with phone, fax and e-mail ID	:	ICAR-Krishi Vigyan Kendra, Hanumanamatti, Ranebennur Taluk, Haveri District, Karnataka State Ph: 08373-253524, Fax: 08373-253524 Email: kvk.Haveri@icar.gov.in / kvk_haveri@rediffmail.com
1.2	Name and address of host organization	:	University of Agricultural Sciences, Krishi Nagar, Dharwad
1.3	Year of sanction	:	1976
1.4	Website address of KVK and date of last update	:	www.kvkhaveri.org and last updated on 23.07.2018

#### 2. Details of staff as on date

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If permanent, please indicate		Date of joining	If temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current pay band	Current grade pay		
2.1	Sr. Scientist & Head	Dr. P. Ashoka	Agronomy	37400-67000	9000	03.02.18	-
2.2	Scientist	Dr. Rajkumar. G.R	Soil Science	15600-39100	7000	16.07.19	-
2.3	Scientist	Dr. K. P. Gunndannavar	Ag. Entomology	15600-39100	7000	05.06.17	-
2.4	Scientist	Dr. Shivamuruty D	Agronomy	15600-39100	6000	21.02.18	-
2.5	Scientist	Dr. Santosh H. M	Horticulture	15600-39100	6000	22.07.19	-
2.6	Scientist	Dr. Mahesh Kadagi	Animal Science	15600-39100	6000	13.07.19	-
2.7	<b>Scientist</b>	<b>Vacant</b>	<b>Home Science</b>	-	-	-	-
2.8	Programme Assistant (Lab)	Mr. Kishna Naik L	Programme Assistant (Lab)	9300-34800-	4200	09.05.17	-
2.9	<b>Computer Programmer</b>	<b>Vacant</b>	-	-	-	-	-
2.10	Farm Manager	Mr.Kallesh D T	Technical officer (Farm Management)	9300-34800	4600	14.07.16	-
2.11	Assistant	Mr. C. R. Arkachari	Assistant	43100-83900	-	23.03.20	-
2.12	Stenographer	Shivappa Hanni	Stenographer	40900-78200	-	24.01.19	-
2.13	Driver 1	Santosh Naik	Driver (LMV)	11600-21000	-	02.04.18	-
2.14	<b>Driver 2</b>	<b>Vacant</b>	-	-	-	-	-
2.15	Supporting staff 1	K. B. Belakeri	Supporting staff Grade-II	10400-16400	-	01.07.02	-
2.16	<b>Supporting staff 2</b>	<b>Vacant</b>	-	-	-	-	-

### 3. Details of SAC meeting conducted during 2019-20: Nil

Date	Major recommendations	Status of action taken in brief	Reasons for no actions, if any
-	-	-	-

### 4. Details of operational areas proposed during 2020-21 (Please refer to the implementation plan of DFI)

Clusters	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise that limit yield and income	Extent of area (ha/No.) affected by the problem in the village	Proposed intervention (OFT, FLD, Training, extension activity etc.)*
Cluster A				
Baradur	Groundnut	<ul style="list-style-type: none"> <li>• Non availability of short duration variety</li> <li>• Pest and disease susceptibility</li> <li>• Use of local variety</li> </ul>	2000 ha	OFT: Assessment of groundnut varieties for short duration and higher productivity
	Greengram	<ul style="list-style-type: none"> <li>• Non availability high yielding varieties in kharif</li> <li>• Use of local variety</li> <li>• Non availability resistant variety to pest and disease</li> </ul>	100 ha	OFT: Assessment of Greengram Varieties KKM-3 for higher yield
	foxtail millet	<ul style="list-style-type: none"> <li>• Low yield due to sole cropping</li> <li>• Poor management practice</li> <li>• Lack of awareness on new varieties</li> </ul>	150 ha	FLD: Demonstration of Intercropping with Redgram + foxtail millet for higher yield and income
	Green gram	<ul style="list-style-type: none"> <li>• Low yield due to use of local variety, pest incidence</li> <li>• Lack of uniform maturity</li> </ul>	500 ha	FLD: ICM in Greengram Variety DGGV-2
	Rabi sorghum	<ul style="list-style-type: none"> <li>• Low yield due to use of local variety</li> <li>• Lodging and poor fodder quality</li> </ul>	1000 ha	FLD: Demonstration of Rabi sorghum variety SPV-2217
	Foxtail millet	<ul style="list-style-type: none"> <li>• Low yield (8 q/ha), Poor management practice</li> <li>• Lack of awareness on new varieties</li> </ul>	150 ha	OFT: Assessment of Foxtail millet varieties for higher yield under rainfed situation
Cluster B				
Bishettikoppa	Maize	<ul style="list-style-type: none"> <li>• Low yield due to sole cropping</li> <li>• Improper nutrient and pest management</li> <li>• Lack of awareness on new varieties of redgram</li> </ul>	2500 ha	FLD: Demonstration of Intercropping with Redgram + Maize for higher yield and income

	Little millet	<ul style="list-style-type: none"> <li>• Low yield due to sole cropping</li> <li>• Poor management practice</li> <li>• Lack of awareness on new varieties</li> </ul>	100 ha	FLD: Demonstration of Intercropping with Redgram + Little millet for higher yield and income
	Sheep and goat	<ul style="list-style-type: none"> <li>• Incidences of viral, bacterial and parasitic diseases, reduced growth &amp; productivity</li> </ul>	20%	FLD: Demonstration of Integrated health management in sheep and goat
	Fodder Cafeteria	Scarcity of green fodder, Low milk yield and low quality milk	20 ha	FLD: Demonstration on Fodder Cafeteria
	Cotton	Leaf reddening and square drop, Low yield	50 ha	OFT: Use of Cotton plus
	Soybean	Low yield, Micro nutrient deficiencies , Pod borer	50 ha	FLD: ICM in soybean
Cluster C				
Sheegihalli	Soybean	<ul style="list-style-type: none"> <li>• Use of local variety</li> <li>• No seed treatment</li> <li>• Improper nutrient management</li> <li>• Lack of knowledge pest and disease management</li> </ul>	300 ha	FLD: Demonstration of soybean variety DSb-23
	Green Chilli	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Chilli murda complex disease (30-35%)</li> <li>• Flower and small fruit drop</li> </ul>	130ha	FLD: ICM in Green Chilli
	Sheep and goat	<ul style="list-style-type: none"> <li>• Incidences of viral, bacterial and parasitic diseases, reduced growth &amp; productivity</li> </ul>	25%	FLD: Demonstration of Integrated health management in sheep and goat
	Vegetable and Fruits	<ul style="list-style-type: none"> <li>• Lack of awareness about nutrition &amp; nutrition garden</li> <li>• Malnutrition</li> <li>• Fluctuation in vegetable prices</li> </ul>	-	FLD: Nutrition Garden
	Maize	<ul style="list-style-type: none"> <li>• Low Yield</li> <li>• Improper nutrient management</li> </ul>	500 ha	FLD: Yield enhancement through soil test based nutrient management in maize
Cluster D				
Yadagodi	Banana	<ul style="list-style-type: none"> <li>• Incidence Panama wilt disease (35-40%)</li> <li>• Poor quality fruits</li> <li>• Low yield (22-25 t/ha)</li> </ul>	60ha	OFT:Effective control of Panama wilt by using stem injection method in Banana
	Banana	<ul style="list-style-type: none"> <li>• Low yield (25 t/ha)</li> <li>• Non availability of disease free planting material</li> </ul>	45ha	FLD: Popularization of tissue culture planting material in elakki banana
	Dairy animals	<ul style="list-style-type: none"> <li>• Repeat breeding</li> <li>• Increase in the inter-calving period</li> <li>• Anoestrus or delayed heat due to nutritional deficiency</li> <li>• Unawareness of Hormonal treatment</li> </ul>	25%	FLD: Demonstration on management of Repeat breeding in dairy animals
	Cabbage	More Usage of Fertilizers and pesticides		OFT: Organic nutrient and pest

				management in Cabbage
	Bengalgram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Improper nutrient management</li> </ul>	150 ha	FLD: ICM in Bengalgram
	Maize	<ul style="list-style-type: none"> <li>• Low Yield</li> <li>• FAW incidence</li> <li>• Micro nutrient deficiency</li> </ul>	850ha	FLD: Demonstration of FAW and Micronutrient management in maize
Cluster E				
Choudadanapur	Guava	<ul style="list-style-type: none"> <li>• Incidence of Tea mosquito bug(35-40%),</li> <li>• low fruit yield and market price</li> </ul>	50 ha	OFT: Assessment of Management strategies for Tea Mosquito bug in Guava
	Sugarcane	<ul style="list-style-type: none"> <li>• Incidence of sucking pests and ESB</li> <li>• Incidence of diseases like Red rot, Rust and leaf spot</li> </ul>	950 ha	FLD: IPDM in Sugarcane
	Paddy	<ul style="list-style-type: none"> <li>• Non availability short duration varieties</li> </ul>		OFT: Assessment of Paddy variety for Northern transitional Zone of Haveri
	Fodder Cafeteria	Scarcity of green fodder, Low milk yield and low quality milk	40 ha	FLD: Demonstration on Fodder Cafeteria
	Sugarcane	<ul style="list-style-type: none"> <li>• High cost on fertilizers</li> <li>• Low organic matter due to burning of trash/residues (50-70%)</li> <li>• Current yield : 75-100 t/ha</li> <li>• Potential yield: 170-200 t/ha</li> </ul>	500 ha	OFT: Assessment of compost culture for the management of Sugarcane trash
	Tomato	<ul style="list-style-type: none"> <li>• Weed menace</li> <li>• Labor scarcity</li> <li>• Low yield</li> <li>• Incidence of sucking pest</li> </ul>	165ha	FLD: Precision farming in Tomato
	Poultry birds	Local non descript poultry birds gives less eggs and low bodyweight gain, Less profit	70%	OFT: Evaluation of performance of Swarnadhara birds with other poultry birds
	Dairy animals	<ul style="list-style-type: none"> <li>• Repeat breeding</li> <li>• Increase in the inter-calving period</li> <li>• Anoestrus or delayed heat due to nutritional deficiency</li> <li>• Unawareness of Hormonal treatment</li> </ul>	25%	FLD: Demonstration on management of Repeat breeding in dairy animals

## 5. Technology assessment during 2020-21

Sl.No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options		Source of technology	Name of critical input	Qty per trial (q)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members
1	Groundnut	• Non availability short duration varieties use of local variety	Assessment of groundnut varieties for short duration and higher productivity	T <sub>1</sub>	-	-	Farmer practices	-	-	03	14,400/-	<ul style="list-style-type: none"> <li>• Days to maturity</li> <li>• No. of pods / plant</li> <li>• Seed weight (100 nos.)</li> <li>• Pest incidence (%)</li> <li>• Grain yield</li> </ul>	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento.</li> <li>• Soil Science</li> <li>• Sr Sci &amp; Head</li> </ul>
				T <sub>2</sub>	G-2-52	UAS, Dharwad	G-2-52	30 kg	2400/-				
				T <sub>3</sub>	JL-1085	MPKV, Rahuri	JL-1085	30 kg	2400/-				
								Total	4800/-				
2	Greengram	Non availability high yielding varieties in <i>kharif</i> use of local variety	Assessment of Greengram Varieties KKM-3 for higher yield	T <sub>1</sub>	-	-	Farmer practices	-	-	03	3600/-	<ul style="list-style-type: none"> <li>• No. of Pods/ Plant</li> <li>• Pest incidence</li> <li>• Yield (q/ha)</li> <li>• Economics</li> </ul>	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento.</li> <li>• Soil Science</li> <li>• Sr Sci &amp; Head</li> </ul>
				T <sub>2</sub>	KKM – 3	UAHS, Shivamogga	KKM – 3	5.0 kg	600/-				
				T <sub>3</sub>	DGGV – 2	UAS, Dharwad	DGGV – 2	5.0 kg	600/-				
								Total	1200/-				
3	Sugarcane	High cost on fertilizers Low organic matter due to burning of trash/residues (50-70%) Current yield : 75-100 t/ha Potential yield: 170-200 t/ha Reasons for yield gap: Disease incidence	Assessment of compost culture for the management of Sugarcane trash	TO <sub>1</sub>	Burning of trash/residue (Farmers Practice)	--	-	-	-	03	3,300/-	<ul style="list-style-type: none"> <li>• Initial and after harvest of soil nutrient status</li> <li>• Plant height (cm)</li> <li>• Tiller population</li> <li>• Root length (cm)</li> <li>• Can yield (t/ha)</li> <li>• Economics</li> </ul>	<ul style="list-style-type: none"> <li>• Sr Sci &amp; Head</li> <li>• Agronomy</li> <li>• Soil Scientist</li> <li>• Ag. Ento.</li> </ul>
				TO <sub>2</sub>	Retention of residue & appln. of compost culture @6 kg/Ac.	UAS,Dharwad	Compost culture	6 kg	360/-				
				TO <sub>3</sub>	Retention of residue + appln. of waste decomposer 1Lit	NRCB	liquid decomposer	1.LIT	100/-				
								Total	1100/				
4	Paddy	• Non availability short duration varieties	Assessment of Rabi/summer Paddy variety for	TO <sub>1</sub>	Farmers practice ()		-	-	-	03	10,500/-	<ul style="list-style-type: none"> <li>• Plant height (cm)</li> <li>• No. of Panicles</li> <li>• Grain yield</li> </ul>	<ul style="list-style-type: none"> <li>• Sr. Sci. &amp; Head</li> <li>• Agronomy</li> <li>• Soil Scientist</li> </ul>
				TO <sub>2</sub>	RNR10548 (IET23746)	UAS, Raichur	Seeds	25kg	1750/-				
				TO <sub>3</sub>	Mogad siri	UAS,Dharwad	Seeds	25kg	1750/-				

			Northern transitional Zone of Haveri						3500/-			(q/ha) • Straw yield	• Ag. Ento.	
5	Cotton	Leaf reddening and square Low yield	Use of Cotton PLUS	TO <sub>1</sub>	Farmers practice	-	-	-	-	05	11,500/-	• Plant height (cm) • No. of branches • No. of ball/pant • Lint weight/plant • Yield (q/ha)	• Soil Science • Agronomy • Ag. Entomology • Sr. Sci. & Head	
				TO <sub>2</sub>	Micronutrient through RDF	UAS Dharwad	FesO <sub>4</sub>	2kg	400/-					
							ZnSO <sub>4</sub>	2kg	400/-					
				TO <sub>3</sub>	Cotton Plus	TNAU	Cotton Plus	3kg	1500/-					
					Total	2300/-								
6	Banana	• Incidence of Panama wilt disease • Low yield • Poor quality	Effective control of Panama wilt by using stem injection method in Banana	T <sub>1</sub>	Farmer practices					03	27,900/-	• Wilt (%) • Avg. bunch weight (Kg) • Yield (t/ha) • Economics	• Horticulture • Ag. Entomology • Sr Sci & Head	
				T <sub>2</sub>	COC drenching at 3 g/litre of water	UHS, Bagalkot	Copper Oxy chloride	15 kg	8100/-					
				T <sub>3</sub>	Stem injection with 3 g Carbendizim + 3 g of copper oxchloride+3 gm of boric acid per liter of water Rhizome treatment	UAS Dharwad	Carbendizim	500 g	250/-					
							Boric acid	500 g	285/-					
			Propiconazole	500 ml	600/-									
			Trichoderma	500 g	65/-									
					Total	9300/-								
7	Poultry	• Local birds give less eggs and low body weight gain	Evaluation of performance of Swarnadhara birds with other poultry birds	T <sub>0</sub>	Farmer practices					03	24,000/-	• Weight gain (g) • Eggs/year • Disease incidence (%) • Mortality,(%) morbidity (%) • Economics	• Animal Scientist • Soil scientist • Sr Sci & Head	
				T <sub>1</sub>	Swarnadhara Poultry Birds	KVAFSU, Bidar	3-4 <sup>th</sup> week Swarnadhara Poultry Birds	20	1800/-					
				T <sub>2</sub>	Gramapriya/ Poultry Birds	KVK, CCRI, North Goa	3-4 <sup>th</sup> week Gramapriya Poultry Birds	20	1800/-					
				T <sub>3</sub>	Shrinidhi Poultry Birds	KVK, CCRI, North Goa	3-4 <sup>th</sup> week Shrinidhi Poultry Birds	20	1800/-					
				Vaccination, Mineral Supplements and feed					50kg					2600/-
									Total					8000/-

**OFT during 2020-21 -- New Propose**

Sl.No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options		Source of technology	Name of critical input	Qty per trial (q)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members
				TO <sub>1</sub>	TO <sub>2</sub>								
1	Cabbage	<ul style="list-style-type: none"> <li>• More use age of Fertilizer and pesticides</li> </ul>	Organic nutrient and pest management in cabbage	TO <sub>1</sub>	Farmers practice	-	-	-	-	03	7,500/-	<ul style="list-style-type: none"> <li>• Head Wight</li> <li>• Pest and disease incidence</li> <li>• Yield t/ha</li> </ul>	<ul style="list-style-type: none"> <li>• Soil Science</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr. Sci. &amp; Head</li> </ul>
				TO <sub>2</sub>	Rec.practice	UAS Dharwad	Market seeds , Fertilizers, pesticides as per recommendation	As per recommendation	-				
				TO <sub>3</sub>	Organic practices like Beejamrutha, Jeevamrutha, Vermicomposting, Use of neem pallets, pheromone traps, pseudomonas	IIHR and ZBNF	Jeevamrutha inputs, neem pellets pheromone traps pseudomonas (IIHR)	20 kg 1 kg 6 numbers 500 g	1000/- 1000/- 425/- 75/-				
									2500/-				
2	Guava	<ul style="list-style-type: none"> <li>• Incidence of Tea mosquito bug(35-40%),</li> <li>• low fruit yield and market price</li> </ul>	Assessment of Management strategies for Tea Mosquito bug in Guava	T <sub>1</sub>	Farmers' practice	-	-	-	-	03	4,500/-	<ul style="list-style-type: none"> <li>• Fruit damage (%)</li> <li>• Fruit yield</li> </ul>	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Soil Science</li> <li>• Sr Sci &amp; Head</li> </ul>
				T <sub>2</sub>	Application of Cypermethrin @ 0.5 ml/L of water at fortnight interval (2-3 times) from flowering stage	UHS Bagalkote	Cypermethrin	500 ml	500/-				
				T <sub>3</sub>	Maintenance of cleanliness in the orchard, Collection and destruction of infested fruits, Regular pruning and application of Lambdacyhalothrin @ 0.5 ml/L of water + Pongamia oil 2% at fortnight interval (2-3 times) from flowering stage	IIHR Bangalore	Lambdacyhalothrin	500 ml	500/-				
							Pongamia oil	5 L	500/-				
							Total		1500/-				



3	Foxtail millet	<ul style="list-style-type: none"> <li>• Low yield (8 q/ha), Poor management practice</li> <li>• Lack of awareness on new varieties</li> <li>• Lack of awareness on processing &amp; value addition</li> </ul>	Assessment of Foxtail millet varieties for higher yield under rainfed situation	T <sub>1</sub>	Farmer practices	-	Farmer practices	-		03	996/-	<ul style="list-style-type: none"> <li>• Grain yield (q/ha)</li> <li>• Fodder yield (t/ha)</li> <li>• Pest &amp; disease (%)</li> <li>• Economics</li> </ul>	<ul style="list-style-type: none"> <li>• Sr. Sci. &amp; Head</li> <li>• Ag. Entomology</li> </ul>
				T <sub>2</sub>	DHFt-109-3	UAS, Dharwad	Seeds Azospirillum	3 kg/ac 200 g	150/- 16/-				
				T <sub>3</sub>	H N-46	UAS, Raichur	Seeds Azospirillum	3 kg/ac 200 g	150/- 16/-				



4		Little millet (K)	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Lack of awareness about new variety</li> </ul>	Demonstration of Intercropping with Redgram + Little millet (1:3) for higher yield and income	DHLM-36-6 & TSR-3	-	UAS Dharwad	Little millet Seeds Pigeon pea seed Azospirillum Trichodurm Pulse magic Soil Analysis Non costing inputs like nipping, detopping Total	3.0 kg/ac 3.0 kg/ac 500 g 500g 1 kg - - 1140/-	180/- 270/- 25/- 65/- 200/- 400/- - 1140/-	10	11,400/-	<ul style="list-style-type: none"> <li>• Grain yield (q/ha)</li> <li>• Fodder yield (t/ha)</li> <li>• Pest &amp; disease (%)</li> <li>• Economics</li> </ul>	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Soil Sci</li> <li>• Animal Sci.</li> <li>• Sr. Sci. &amp; Head</li> </ul>
<b>Oilseeds</b>														
5		soybean	<ul style="list-style-type: none"> <li>• Use of local variety</li> <li>• No seed treatment</li> <li>• Poor nutrient management</li> <li>• Lack of knowledge pest and disease management</li> </ul>	Introduction of soybean variety DSb-21	DSb-21	-	UAS Dharwad	DSb-21 Trichoderma PSB Rhizobium <i>Metarhizium rileyii</i> Soil analysis total	25.0 kg/ac 250 gm 250 gm 250 gm 1 kg - 2535/-	1800/- 35/- 25/- 25/- 250/- 400/- 2535/-	10	25,350/-	<ul style="list-style-type: none"> <li>• Grain yield (q/ha)</li> <li>• defoliator incidence (%)</li> <li>• Economics</li> </ul>	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Soil Sci</li> <li>• Sr. Sci. &amp; Head</li> </ul>
<b>Pulses</b>														
6	Commercial crops	Sugarcane (K)	<ul style="list-style-type: none"> <li>• Sucking pests and ESB</li> <li>• Red rot, Rust and leaf spot</li> </ul>	IPDM in Sugarcane	-	-	UAS Dharwad	<i>Trichoderma</i> <i>Pseudomonas</i> Neem insecticide Fipronil 0.3% GR Soil analysis	5 kg 5kg 1 L 5 kg - 2600/-	650/- 750/- 300/- 500/- 400/- 2600/-	10	26,000/-	<ul style="list-style-type: none"> <li>• Pest and disease incidence(%)</li> <li>• Yield (q/ha)</li> <li>• Economics</li> </ul>	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Soil Sci</li> <li>• Sr. Sci. &amp; Head</li> </ul>
7	Livestock	Fodder	Scarcity of green fodder, Low milk yield and low quality milk	Muticut varieties of cereals and legume fodder crops and trees. The	• Multicut Jowar (COFS-31) • Hedge	-	TNAU Coimbatore	Fodder seeds of COFS-31 Hedge Lucerne	3kg 1.5kg	1400 /- 1,000/-	05	16,000	<ol style="list-style-type: none"> <li>1.Fodder Yield, (q)</li> <li>2.Milk yield (Lit)</li> <li>3. Economics</li> </ol>	<ul style="list-style-type: none"> <li>• Animal Scientist</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>

				cereal and leguminous fodder grow and fed to animals in the ratio of 2:1	<ul style="list-style-type: none"> <li>• Lucerne</li> <li>• Sesbenia grandiflora</li> <li>• Moringa</li> </ul>			<table border="1"> <tr> <td>Sesbenia grandiflora</td> <td>250g</td> <td>400/-</td> </tr> <tr> <td>Moringa</td> <td>250g</td> <td>400/-</td> </tr> <tr> <td colspan="2">Total</td> <td>3200/-</td> </tr> </table>	Sesbenia grandiflora	250g	400/-	Moringa	250g	400/-	Total		3200/-													
Sesbenia grandiflora	250g	400/-																												
Moringa	250g	400/-																												
Total		3200/-																												
8		Dairy animals	<p>Repeat breeding</p> <p>Increase in the inter-calving period</p> <p>Anoestrus or delayed heat due to nutritional deficiency</p> <p>Unawareness of Hormonal treatment</p>	Demonstration on management of Repeat breeding in dairy animals	-	-	KVAFSU, Bidar	<table border="1"> <tr> <td>Bol. fenbendazole-3g</td> <td>02</td> <td>200/-</td> </tr> <tr> <td>Mineral Mixture</td> <td>1.2kg</td> <td>250/-</td> </tr> <tr> <td>PGF2<math>\alpha</math></td> <td>4ml</td> <td>350/-</td> </tr> <tr> <td>GnRH</td> <td>5ml</td> <td>400/-</td> </tr> <tr> <td colspan="2">Total</td> <td>1200/-</td> </tr> </table>	Bol. fenbendazole-3g	02	200/-	Mineral Mixture	1.2kg	250/-	PGF2 $\alpha$	4ml	350/-	GnRH	5ml	400/-	Total		1200/-	10	12,000/-	<p>1. Number of animals coming in heat (Duration of heat, intensity of heat)</p> <p>2. Number of animals conceived (%)</p> <p>3. Economics</p>	<ul style="list-style-type: none"> <li>• Animal Scientist</li> <li>• Agri Entomology</li> <li>• Horticulture</li> </ul>			
Bol. fenbendazole-3g	02	200/-																												
Mineral Mixture	1.2kg	250/-																												
PGF2 $\alpha$	4ml	350/-																												
GnRH	5ml	400/-																												
Total		1200/-																												
9		sheep and goat	Incidences of viral, bacterial and parasitic diseases, reduced growth & productivity	Demonstration of Integrated health management in sheep and goat	-	-	KVAFSU, Bidar	<table border="1"> <tr> <td>Fenbendazole + praziquental</td> <td>1</td> <td>500</td> </tr> <tr> <td>Immuno booster syrup</td> <td>1</td> <td>400</td> </tr> <tr> <td>Probiotic syrup</td> <td>1</td> <td>250</td> </tr> <tr> <td>Vitamin syrup</td> <td>1</td> <td>750</td> </tr> <tr> <td>Mineral syrup-</td> <td>1</td> <td>500</td> </tr> <tr> <td colspan="2">Total</td> <td>2400</td> </tr> </table>	Fenbendazole + praziquental	1	500	Immuno booster syrup	1	400	Probiotic syrup	1	250	Vitamin syrup	1	750	Mineral syrup-	1	500	Total		2400	05	12,000/-	<p>1. Disease incidence (%)</p> <p>2. Body weight gain (Kg)</p> <p>3. Economics</p>	<ul style="list-style-type: none"> <li>• Animal Scientist</li> <li>• Agronomy</li> <li>• Soil Scientist</li> </ul>
Fenbendazole + praziquental	1	500																												
Immuno booster syrup	1	400																												
Probiotic syrup	1	250																												
Vitamin syrup	1	750																												
Mineral syrup-	1	500																												
Total		2400																												

## Frontline demonstrations during 2020-21-

New Proposals

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
1	Cereals	Maize	<ul style="list-style-type: none"> <li>Low yield due to sole crop</li> <li>Lack of awareness about new variety of Redgram</li> </ul>	Demonstration of Intercropping with Redgram + maize (1:3) for higher yield and income	TSR-3	Pvt maize hybrid	UAS Dharwad	Pigeon pea seed	3 Kg/ac	270/-	10	9,600/-	<ul style="list-style-type: none"> <li>Grain yield (q/ha)</li> <li>Fodder yield (t/ha)</li> <li>Pest &amp; disease (%)</li> <li>Economics</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Ag. Ento</li> <li>Soil Sci</li> <li>Animal Sci.</li> <li>Sr. Sci. &amp; Head</li> </ul>
								<i>Rhizobium</i>	250 g	25/-				
								Trichodurm	500g	65/-				
								Pulse magic	1 kg	200/-				
								Soil Analysis	-	400/-				
								Non costing inputs like nipping, detopping		-				
Total		960/-												
2		Maize	<ul style="list-style-type: none"> <li>Low Yield (18-20 q/ac)</li> <li>FAW incidence</li> <li>Micro nutrient deficiency</li> </ul>	ICM in Maize	-	Pvt Hybrid	UAS Dharwad	Trichoderma	500 g	65	10	43,650/-	<ul style="list-style-type: none"> <li>Soil nutrient status</li> <li>Cob size/Light yield</li> </ul>	<ul style="list-style-type: none"> <li>Soil Science</li> <li>Agronomy</li> <li>Ag. Entomology</li> <li>Sr. Sci. &amp; Head</li> </ul>
								Azospirillum	500 g	50				
								PSB	500 g	50				
								ZnSO4	10 kg	1200				
								FeSO4	10 kg	950				
								Traps	10 no	400				
								Lures	20 no	1000				
								Metarhizium rileyii	1 kg	250				
								Soil Analysis	-	400				
		4365/-												
3	Oilseeds	Soybean (K)	<ul style="list-style-type: none"> <li>Variety JS-335</li> <li>Yield low</li> </ul>	ICM in soybean	Dsb-21	-	UAS Dharwad	Seeds Dsb-21	25kg	1500/-	10	38,950/-	<ul style="list-style-type: none"> <li>Soil nutrient status, pods/Pl yield.</li> </ul>	<ul style="list-style-type: none"> <li>Soil Science</li> <li>Agronomy</li> <li>Ag. Entomology</li> <li>Sr. Sci. &amp; Head</li> </ul>
								ZnSO4	5kg	480/-				
								Gypsum	100kg	450/-				
								Rhizobium	0.5kg	50/-				
								PSB	0.5kg	65/-				
								Soil nutrient (Pre and post Nutrient)	-	400/-				
								Neem Oil	1L	300/-				
								Metarhizium rileyii	500gm	150/-				
								Lambdacyhalothrin	500ml	500/-				
		3895/-												
4	Pulses	Bengalgram	<ul style="list-style-type: none"> <li>Low yield</li> <li>Improper nutrient managem</li> </ul>	ICM in Bengalgram	Jaki-9218	-	UAS Dharwad	Seeds Jaki	25kg	1600/-	10	39,950/-	<ul style="list-style-type: none"> <li>Soil nutrient status, pods/Pl yield.</li> </ul>	<ul style="list-style-type: none"> <li>Soil Science</li> <li>Agronomy</li> <li>Ag.</li> </ul>
								ZnSO4	4kg	480/-				
								Fe SO4	4kg	500/-				
								Rhizobium	0.5kg	50/-				

			ent					PSB	0.5kg	65/-					Entomology • Sr. Sci. & Head
								Soil analysis	-	400/-					
								Neem Oil	3L	900/-					
										3995/-					
5		Green gram	<ul style="list-style-type: none"> <li>Low Seeds yield</li> <li>Improper nutrient management</li> </ul>	ICM in Green gram			UAS Dharwad	Seeds (DGGV-2)	5 Kg	600/-	10	11,000/-	<ul style="list-style-type: none"> <li>Plant height</li> <li>No. of pods per plant</li> <li>Seed weight (100no)</li> <li>Yield(Qtl/ha)</li> </ul>	Sr. Sci. & Head • Ag. Ento	
								<i>Trichoderma</i>	50 gm	20/-					
								<i>Rhizobium</i>	200 gm	40/-					
								PSB	200 gm	40/-					
								Pulse Magic	2 Kg	400/-					
								Total		1100/-					
6	Horticultural crops	Banana	Low yield, Non availability of disease free planting material	Popularization of tissue culture planting material in elakki banana  Tech. to be demonstrated Tissue culture planting material, <i>Trichoderma</i> and soil test base nutrient management	Elakki	-	IIHR (B)	Tissue culture Banana plants	200	4900/-	05	32,000/-	Height and girth of pseudo stem (cm), No. of leaves, Days taken for flowering, Bunch weight (Kg), Yield (t/ha) and Economics	Scientist (Horticulture, Agronomy) Sr. Sci. & Head	
								<i>Trichoderma</i>	10 kg	1300/-					
								Soil test	-	200/-					
								Total		6400/-					
7		Chilli	Low yield (20-22 t/ha), Chilli murda complex disease (30-35%), flower drop	ICM in Green chilli  Tech. to be demonstrated  Seed treatment with Metalaxyl MZ (2 g/kg)		Sitara gold	IIHR (B)	NAA	100 ml	300/-	05	18,000/-	Yield (t/ha), Number of thrips and mites/leaf, Leaf curl disease incidence (%), Economics	Scientist (Horticulture) Scientist (Ag. Ento.) Sr. Sci. & Head	
								Arka microbial consortium	4 kg	800/-					
								Vegetable special	4 Kg	800/-					
								Imidacloprid	100ml	550/-					
								Fenazaquin	500 ml	750/-					
								Soil test	-	400/-					

				Seedling dip- Imidacloprid (0.5 ml/L) Spraying 50 ppm NAA during flowering (1 ml/ 4 L water) Diafenthiuron (0.5 g/L) at 45 & 60 days of planting, Fenazaquin (2 ml/L) at time of mite incidence 3 sprays of vegetable spl. @ 5 g/L at 30, 45, 60 days after transplanting Application of Arka microbial consortium @ 20g/lit (20-50 ml/plant) after 10 days of transplanting					Total	3600/-				
8		Tomato	Weed menace, labor scarcity, low yield and incidence of sucking pest	Use of polythene mulch and nutrient management in Tomato Tech. to be demonstrated  Use of polythene mulch Drip irrigation Training of plants 30 days after planting		Indus 1030	IIHR (B)	Polythene mulch Vegetable special  Soil test	1000m <sup>2</sup>  4 Kg  -	5200/-  800/-  400/-	05	32,000/-	Yield (t/ha), Number of fruits/plant, Number of thrips and mites/leaf, Number of labor for weeding, Economics	Scientist (Horticulture) Scientist (SS&AC) Scientist (Agronomy)

				Soil test base fertilizer application Foliar application of vegetable special at 30, 45 and 60 days after planting					Total	6400/-				
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### 7. Training for farmers/ farm women during 2020-21

Sl.No.	Thematic area and the crop/ enterprise	Crop / Enterprise	Related field intervention (OFT/FLD)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
7.1	Crop production	Maize	FLD	ICM in maize	02	60	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Foxtail millet	FLD	ICM in foxtail millet	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Little millet	FLD	ICM in Little millet	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
		Maize	FLD	ICM in maize	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Green gram	OFT	ICM in Greengram	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Redgram	FLD	ICM in Redgram	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>



		Groundnut	OFT	ICM in Ground nut	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Soybean	FLD	ICM in Soybean	02	60	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Sugarcane	FLD	ICM in Sugarcane	02	60	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
7.2	Horticulture production	ICM in Chilli	OFT	Integrated crop management in chili	02	60	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
		ICM in Banana	OFT	Integrated crop management in banana	02	60	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
		ICM in Betel vine	-	Integrated crop management in Betel vine	03	90	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
		ICM in Onion	-	Integrated crop management in Onion	02	60	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
7.3	Livestock production	Poultry	OFT	Backyard poultry rearing	1	30	Animal Scientist and All other scientist
		Fodder	FLD	Green fodder Cultivation and preservation	1	30	Animal Scientist and All other scientist
		Dairy animals	FLD	Management of repeat breeding in dairy animals	1	30	Animal Scientist and All other scientist

		Sheep and Goat	FLD	Health management in sheep and goat	1	30	Animal Scientist and All other scientist
7.4	Home Science	-	-	-	-	-	-
7.5	Plant protection	Guava	OFT	Pest and disease management in Guava	02	60	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Chilli	-	Management of Leaf curl complex	01	30	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Cotton	-	IPM in Cotton	01	30	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
7.6	Production of inputs at site	-	-	-	-	-	-
7.7	Soil health and fertility	Maize	FLD	ICM in Maize	02	60	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Animal Science</li> <li>• Sr Sci &amp; Head</li> </ul>
		Cotton	OFT	Use of Cotton plus	01	30	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
		Soybean	FLD	ICM in Soybean	03	90	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
		Bengalgram	FLD	ICM in Bengalgram	03	90	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
		Banana	FLD	Nutrient management	01	30	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> </ul>

							<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
		Chilli	OFT	Nutrient management	01	30	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
		Cabbage	OFT	Organic management of nutrients	02	60	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
		Soil and Water conservation	-	Recommended practices for Soil and Water conservation in farm fields	03	90	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Animal Scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Fertilizers	-	Fertilizer application awareness to farmers	02	60	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Animal Scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Climate	-	Suitability of Crops to changed climatic situations	02	60	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Animal Scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
7.8	PHT and value addition	Fruits and vegetables	-	PHT and value addition	02	60	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
		Millets	FLD	PHT and value addition	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
7.9	Capacity building/ group dynamics	Propagation techniques	-	Fruit crops	01	30	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> </ul>

		in horticulture crops					<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
7.10	Farm mechanization	-	-	-	-	-	-
7.11	Fisheries production technologies	-	-	-	-	-	-
7.12	Mushroom production	-	-	-	-	-	-
7.13	Agro forestry	Hebbevu & Pasture	-	Cultivation practices	05	150	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Agronomy</li> <li>• Animal Scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
7.14	Bee keeping	-	-	-	-	-	-
7.15	Sericulture	Mulberry	-	Nutrient management in Mulberry	02	60	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
7.16	Others, pl. specify	-	-	-	-	-	-

### 8. Training for rural youth during 2020-21

Sl.No.	Thematic area and the crop/enterprise	Crop / Enterprise	Related field intervention (EDP/Skill development etc)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
8.1	Crop production	Organic farming	EDP	Organic farming	01	30	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
8.2	Horticulture production	Vegetable	Skill development	Crossing techniques in vegetables	01	30	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
8.3	Livestock production	Sheep and goat	Skill development	Health and Disease management in sheep and goats	01	30	Animal Scientist and All other scientist
		Backyard Poultry	Skill development	Role of backyard poultry in enhancing the food and nutrition security.	01	30	Animal Scientist and All other scientist
8.4	Home Science	-	-	-	-	-	-

8.5	Plant protection	-	-	-	-	-	-
8.6	Production of inputs at site	Vermicompost	EDP	Production of Vermicompost	01	30	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Planting material production	-	Production of planting material	01	30	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
8.7	Soil health and fertility	Seed production	Skill development	Seed production technology in field crops and vegetable crops	01	30	<ul style="list-style-type: none"> <li>• Soil scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
8.8	PHT and value addition	Millets	FLD	PHT and value addition	02	60	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Soil Scientist</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
8.9	Capacity building/ group dynamics	-	-	-	-	-	-
8.10	Farm mechanization	-	-	-	-	-	-
8.11	Fisheries production technologies	-	-	-	-	-	-
8.12	Mushroom production	-	-	-	-	-	-
8.13	Agro forestry	Nursery	Skill development	Soil and Nutrient management in nursery of forest plants	02	60	<ul style="list-style-type: none"> <li>• Soil scientist</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
8.14	Bee keeping	Bee Keeping	EDP	Apiculture	01	30	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
8.15	Sericulture	-	-	-	-	-	-
8.16	Others, pl. specify	Vermicomposting	EDP	Vermicomposting Technology	01	30	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Entomology</li> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>

### 9. Training for extension personnel during 2020-21

Sl.No.	Thematic area and the crop/enterprise	Training title	No. of courses	Expected No. of participants	Names of the team members involved
9.1	Crop production	ICM in <i>Kharif</i> crops	01	30	<ul style="list-style-type: none"> <li>• Ag. Entomology</li> <li>• Agronomy</li> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		ICM in <i>Rabi</i> crops	01	30	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Entomology</li> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
		Soil fertility assessment and nutrients management	03	90	<ul style="list-style-type: none"> <li>• Soil scientist</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
9.2	Home Science	-	-	-	-
9.3	Capacity building and group dynamics	-	-	-	-
9.4	Horticulture	Kitchen and terrace garden	02	40	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
9.5	Livestock production and management	-	-	-	-
9.6	Plant protection	IPM in different crops	01	30	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Horticulture</li> </ul>
9.7	Farm mechanization	-	-	-	-
9.8	PHT and value addition	Millets	02	60	<ul style="list-style-type: none"> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Sr Sci &amp; Head</li> </ul>
9.9	Production of inputs at site	-	-	-	-
9.10	Sericulture	-	-	-	-
9.11	Fisheries	-	-	-	-
9.12	Other, pl. specify	-	-	-	-

### 10. Vocational trainings during 2020-21

Sl.No.	Thematic area and the crop/ enterprise	Training title	No. of programmes	Duration (days)	Expected No. of participants	Sponsoring agency, if any	Names of the team members involved
10.1	Crop production	-	-	-	-	-	-
10.2	Home Science	-	-	-	-	-	-
10.3	Capacity building and group Dynamics	-	-	-	-	-	-
10.4	Horticulture	Protected cultivation in vegetable crops	02	03	40	Dept. of Horti.	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
		Post harvest management in Mango	02	03	40	NABARD.	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
10.5	Livestock production and management	Modern Dairy Farming	01	03	30	-	Animal Scientist and All other scientist
		Sheep and goat feeding and Health management	01	03	30	-	Animal Scientist and All other scientist
10.6	Plant protection	-	-	-	-	-	-
10.7	Farm mechanization	-	-	-	-	-	-
10.8	PHT and value addition	Processing and value addition in Horticulture crops	02 (3 days duration)	Students & youth	60	-	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Sr Sci &amp; Head</li> </ul>
10.9	Production of inputs at site	-	-	-	-	-	-
10.10	Sericulture	-	-	-	-	-	-
10.11	Fisheries	-	-	-	-	-	-
	Other, pl. specify						
10.12	<i>Trichoderma</i>	Production of <i>Trichoderma</i>	01	01	30	-	<ul style="list-style-type: none"> <li>• Ag. Ento</li> </ul>

							<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
10.13	Millets	Cultivation of millets under organic farming	01	01	30	KSDA	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Horticulture</li> <li>• Ag. Ento</li> <li>• Soil scientist</li> <li>Sr Sci &amp; Head</li> </ul>
10.14	Vermicompost	Production of Vermicompost	04	03	120	-	<ul style="list-style-type: none"> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Farm manager</li> <li>• Program assistant Soil Science</li> <li>• Sr Sci &amp; Head</li> </ul>

### 11. Sponsored trainings during 2020-21

Sl.No.	Thematic area and the crop/enterprise	Training title	No. of programmes	Duration (days)	Expected number of participants	Sponsoring agency	Names of the team members involved
11.1	Crop production	Production technology <i>kharif &amp; Rabi</i> crops	02	01	60	KSDA	<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
11.2	Home Science	-	-	-	-	-	-
11.3	Capacity building and group Dynamics	-	-	-	-	-	-
11.4	Horticulture	Kitchen and terrace garden	02	02	30	DOH	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
		ICM in Mango	02	03	40	DOH	<ul style="list-style-type: none"> <li>• Horticulture</li> <li>• Soil scientist</li> </ul>



							<ul style="list-style-type: none"> <li>• Agronomy</li> <li>• Ag. Ento</li> <li>• Sr Sci &amp; Head</li> </ul>
11.5	Livestock production and management	Modern dairying and clean milk production	30	01	30	KMF/ATMA	Animal Scientist and Sr S and Head
11.6	Plant protection	Pest and disease management in different field crops	01	01	30	KSDA	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Soil scientist</li> </ul>
		Pest and disease management in different Horticulture crops	01	01	30	DOH	<ul style="list-style-type: none"> <li>• Ag. Ento</li> <li>• Horticulture</li> <li>• Agronomy</li> <li>• Soil scientist</li> <li>• Sr Sci &amp; Head</li> </ul>
11.7	Farm mechanization	-	-	-	-	-	-
11.8	PHT and value addition	-	-	-	-	-	-
11.9	Production of inputs at site	-	-	-	-	-	-
11.10	Sericulture	-	-	-	-	-	-
11.11	Fisheries	-	-	-	-	-	-
11.12	Others, pl. specify	-	-	-	-	-	-
	Soil testing	Use of mini soil testing kit/lab	01	01	15	KSDA	<ul style="list-style-type: none"> <li>• Soil scientist</li> <li>• Agronomy</li> <li>• Farm manager</li> <li>• Program assistant Soil Science</li> <li>• Sr Sci &amp; Head</li> </ul>

## 12. Extension activities during 2020-21

Sl. No.	Extension activity	No. of activities	Targeted number of participants	Names of the team members involved
12.1	Advisory services	2740	2825	KVK Team
12.2	Diagnostic visits	35	155	KVK Team
12.3	Field days	11	540	KVK Team
12.4	Group discussions	17	260	KVK Team
12.5	Kisan gosthies	01	50	KVK Team
12.6	Film shows	06	100	KVK Team
12.7	Self -Help Groups (SHGs) meetings	02	40	KVK Team
12.8	Kisan Melas	01	60	KVK Team
12.9	Exhibitions	03	580	KVK Team
12.10	Scientists' visit to farmers fields	73	310	KVK Team
12.11	Plant/soil health/animal health camps	06	180	KVK Team
12.12	Farm science club meetings	-	-	-
12.13	Ex-trainees sammelans (Meetings)	-	-	-
12.14	Farmers' seminars/workshops	-	-	-
12.15	Method demonstrations	14	180	KVK Team
12.16	Celebration of important days	08	250	KVK Team
12.17	Special day celebrations	03	225	KVK Team
12.18	Exposure visits	01	25	KVK Team
12.19	Technology week celebration	01	100	KVK Team
12.20	Farmers Field School (FFS)	-	-	-
12.21	Farm innovators meet	-	-	-
12.22	Awareness programmes	01	30	KVK Team
12.23	Pre-kharif campaign	05	150	KVK Team
12.24	Pre-rabi/summer campaign	01	30	KVK Team
12.25	Others, pl. specify	-	-	-

### 13. Activities proposed as knowledge and resource centre during 2020-21

#### 13.1 Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha)/ Number/kg	Names of the team members involved
13.1.1	Technology park/ crop cafeteria	Millet crop cafeteria	1.0	• Tech Officer (Farm) & Senior Scientist & Head
		Fodder crop(grasses) cafeteria	1.0	• Tech Officer (Farm) & Senior Scientist & Head
		Sapota garden	2.0	• Horticulture, Tech Officer (Farm), Sr. Scientist
		Multiple cropping system (Sapota+Millets+Fodder crops)	2.0	• Tech Officer (Farm) & Senior Scientist & Head
		Drumstick unit (PKM-1)	0.5	• Tech Officer (Farm) & Senior Scientist & Head
		Horticulture Nursery Unit	0.20	• Horticulturist , Tech Officer (Farm) & Senior Scientist & Head
		Horticulture mother plant orchard	1.0	• Horticulturist , Tech Officer (Farm) & Senior Scientist & Head
13.1.2	Demonstration units	Vermicompost production unit	03	• Tech Officer (Farm) & Senior Scientist & Head
		Azolla unit	01	• Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
		Poultry rearing unit	01	• Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
		Apiculture	01	• Entomologist , Tech Officer (Farm) & Senior Scientist & Head
		Goat rearing unit	20 No's	• Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
13.1.3	Lab analytical services	-	-	-
13.1.4	Technology week	IFS, ICM, Organic Farming	01	• KVK Team
		Soil and water conservation		
		Plant protection		
		Bio control agents		
		Processing and value addition		
13.1.5	Others, Pl. specify	-	-	-

## 13.2 Technological products

Sl. No.	Category	Name of the production partner agency, if any	Name of the product	Quantity (Q) Number planned to be produced during 2020-21(q)	Names of the team members involved
13.2.1	Seeds	Seed Unit UAS, Dharwad	Foxtail millet (Dhft-109- 3)	20	Tech Officer (Farm) & Senior Scientist & Head
			Little millet (Dhlm-36-3)	10	Tech Officer (Farm) & Senior Scientist & Head
			Proso millet (DHPM-2769)	05	Tech Officer (Farm) & Senior Scientist & Head
			Barnyard millet (DHBM-93-2)	20	Tech Officer (Farm) & Senior Scientist & Head
			Finger millet (DHFM-78-3)	15	Tech Officer (Farm) & Senior Scientist & Head
			Redgram (BSMR-736)	20	Tech Officer (Farm) & Senior Scientist & Head
			Fodder Maize (AT)	10	Tech Officer (Farm) scientist (Vet) & Senior Scientist & Head
			Fodder cowpea	0.5	Tech Officer (Farm), scientist (Vet) & Senior Scientist & Head
			CoFS-31	0.5	Tech Officer (Farm), scientist (Vet) & Senior Scientist & Head
			Castor (GC-3)	10	Tech Officer (Farm) & Senior Scientist & Head
			Sun hemp (Local)	25	Tech Officer (Farm) & Senior Scientist & Head
			Horsgram (GPM-6)	05	Tech Officer (Farm) & Senior Scientist & Head
			<i>Rabi</i> Sorghum (SPV-2217)	10	Tech Officer (Farm) & Senior Scientist & Head
		COFS-31	0.5	Animal Scientist	
13.2.2	Planting material		Sapota (DHS-1)	500	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head
			Sapota (DHS-2)	500	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head

			Curry leaf (Suvasini)	2000	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head
			Tamarind (DTS-1)	1000	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head
			Lime (Local)	1500	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head
			Guava (L-49)	1000	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head
			Drumstick	1000	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head
13.2.3	Bio-products	UAS Dharwad	Trichoderma	10 qtl	Entomologist, Prog. Asst & Senior Scientist & Head
			PSB	4.0	Entomologist, Programme assistant, Senior scientist and head
			Pseudomonas	4.0	Entomologist, Programme assistant, Senior scientist and head
13.2.4	Livestock strains	-	-	-	-
			Calf-HFCB	06	Animal Scientist
			Lamb-Deccani	08	Animal Scientist
13.2.5	Fish fingerlings	-	-	-	-
13.2.6	Any other, pl specify	-	-	-	-
	Production of Vermicompost		Vermicompost	25	Tech Officer (Farm) and Senior Scientist & Head

### 13.3 Technological information

Sl. No	Category	Technological capsules/lectures/number	Names of the team members involved
13.3.1	Technology backstopping to line departments		
	a. Agriculture	-	-
	b. Horticulture	Vegetable crop management (02)	Horticulture
	c. Animal Husbandry	-	-
	d. Fisheries	03	Animal Scientist
	e. Agricultural Engineering	-	-
	f. Sericulture	-	-
	g. Others, pl. specify	-	-
13.3.2	Literature/publication	03	Animal Scientist
13.3.3	Electronic media	-	-
13.3.4	Kisan mobile advisory services	40 messages to 39000 farmers	All scientist
13.3.5	Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies).	KAPC (DFI)	All scientist
		KSDH (FPO)	Dr. Santhosh H M as Leader and others Scientists as Co-leaders
		KSDA	All scientist
		NABARD	All scientist

### 14. Additional activities planned during 2020-21

Sl. No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
14.1	KAPC	Raising income and welfare of farmers in the adopted villages	Raising income in agriculture activity through training ,Method demonstration, Provide critical al inputs, Exposure visits	25,00,000/-	KVK team
14.2	DFI	DFI in Choudadanapur Village	Recommended practices for cultivation of field crops and vegetable crops and animal health management	1,00,000/-	KVK team
14.3	Paramparagatha Krishi Vikasa Yojane (PKVY)	Organic management practices	Green manuring, Jeevamrutha application, Vermicompost application, Beejamrutha treatment, Land convection into organic	3,00,000/-	KVK team

## 15. Revolving fund

### 15.1 Financial status of revolving fund

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 31.01.2019 (Rs. in Lakh)	Expected closing balance by 31.03.2019 (Including value of material in stock/ likely to be produced)
2,61,186.60	14,52,890.50	18,02,381.00	6,10,677.10 (*6,96,677/-) * 86,000.00 is yet to be credit from seed unit UAS, Dharwad	2,61,186.60

### 15.2 Plan of activities under revolving fund

Sl. No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
15.2.1	Dairy (Milk production)	21,000 (Liter)	6,30,000/-	Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
15.2.2	Seeds production (q)	100	4,50,000/-	Tech Officer (Farm) & Senior Scientist & Head
15.2.3	Production of planting materials (Nos.)	7500 (No)	2,00,000/-	Horticulturist, Tech Officer (Farm) & Senior Scientist & Head
15.2.4	Production of Vermicompost (q)	25	15000/-	Tech Officer (Farm) & Senior Scientist & Head
15.2.5	Trichoderma (q)	10	1,30,000/-	Entomologist , Prog. Asst & Senior Scientist & Head
15.2.6	Soil and Water	3000	4,50,000/-	Soil Scientist, Prog. Asst & Senior Scientist & Head
		Total	18,75,000/-	

### 16. Activities of soil, water and plant testing laboratory during 2020-21

Sl.No.	Type of samples	No. of samples to be analyzed	Names of the team members involved
16.1	Soil test using analytical lab	3500	Soil scientist , Programme assistant (Lab), Senior scientist and head
16.2	Soil test using mobile analysis kit	-	-
16.3	Water	3000	Soil scientist , Programme assistant (Lab), Senior scientist and head
16.4	Plant	150	Soil scientist , Programme assistant (Lab), Senior scientist and head
16.5	Others, pl. specify	-	-

### 17. E-linkage during 2020-21

Sl. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
17.1	Title of the technology module to be prepared		
17.2	Creation and maintenance of relevant database system for KVK		
	• Training database	Yet to be done	-
	• Seeds & planting material	Yet to be done	-
	• Soil & water test database	Yet to be done	-
	• FLD	Yet to be done	-
	• Milk sold	Yet to be done	-
	• Farmers Visit KVK	Yet to be done	-
	• OFT	Yet to be done	-
	• Extension activities	Yet to be done	-
	• Publication (Retrench Paper, Abstract, Popular article, Folder etc.,)	Going on	-
	• ICAR revolving fund	Going on	-
17.3	Any other (Please specify)	-	-



**18. Activities planned under rainwater harvesting scheme (only to those KVKs which are already having scheme under rain water harvesting)**

Sl. No	Activities planned	Remarks if any
18.1	Maintenance of fodder demonstration bank	Napier gross, perennial fodder crops
18.2	Maintenance of Nursery garden for multiplication of Horticultural plants	Sapota, tamarind, Curry leaf, Sugarcane, Guava
18.3	Development of field gene bank (Germplasm)	-
18.4	Training cum demonstration on Rainwater harvesting and its utilization	-
18.5	Maintenance of Nutrition garden	-

**19. Farmers Field School (FFS) planned**

Thematic area	Title of the FFS	Budget proposed in Rs.
-	-	-

**20. Integrated Farming System (IFS) planned**

Description of model(s)	No. of models/units	Budget proposed in Rs.
-	-	-

**21. Details of budget utilization (2019-20) upto 31 January 2020**

<b>(Rs. In lakhs)</b>				
<b>Sl.No.</b>	<b>Particulars</b>	<b>Sanctioned</b>	<b>Released</b>	<b>Expenditure</b>
<b>21.1</b>	<b>(A). REVENUE (Recurring Contingencies)</b>			
21.1.1	<b>Pay &amp; Allowances</b>	118.00	118.00	116.00
21.1.2	<b>Traveling allowances</b>	1.50	1.50	1.50
21.1.3	<b>Contingencies</b>			
21.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	2.25	2.25	2.24
21.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	1.65	1.65	1.65
21.1.3.c	<i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i>	1.20	1.20	0.60
21.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	1.00	1.00	0.98
21.1.3.e	<i>Frontline demonstrations</i>	2.75	2.75	1.20
21.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	0.70	0.70	0.66
21.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0.0	0.0	0.0
21.1.3.h	<i>Training of extension functionaries</i>	0.40	0.40	0.0
21.1.3.i	<i>Extension activities/services</i>	0.90	0.90	0.70
21.1.3.j	<i>Farmers' Field School</i>	0.0	0.0	0.0
21.1.3.k	<i>EDP (2 Nos.) / Innovative activities</i>	0.30	0.30	0.0
21.1.3.l	<i>Soil &amp; water testing &amp; issue of soil health cards</i>	0.25	0.25	0.22
21.1.3.m	<i>Maintenance of building</i>	0.75	0.75	0.75
21.1.3.n	<i>Farmers Conclave, KVK Conference</i>	0.25	0.25	0.10
21.1.3.o	<i>Video production</i>	0.30	0.30	0.26
21.1.3.p	<i>Library (Purchase of Journals, Periodicals, News Papers &amp; Magazines)</i>	0.20	0.20	0.04
	<b>Total Recurring</b>	132.40	132.40	0
<b>21.2</b>	<b>(B). CAPITAL (Non-Recurring Contingencies)</b>	0	0	0
21.2.1	<b>Equipments &amp; Furniture</b>	0	0	0
21.2.2	<b>Works</b>	0	0	0
21.2.3	<b>Vehicle</b>	0	0	0
21.2.3 a	Four wheeler (replacement)	0	0	0
21.2.4	<b>Library</b>	0	0	0
	<b>Total Non Recurring</b>	0	0	0
<b>21.3</b>	<b>(C). REVOLVING FUND</b>	0	0	0
	<b>GRAND TOTAL (A+B+C)</b>	132.40	132.40	0

## 22. Details of Budget Estimate based on proposed action plan(2020-21)

Sl.No.	Particulars	BE 2020-21 proposed (Rs.)
<b>22.1</b>	<b>(A). REVENUE (Recurring Contingencies)</b>	
21.1.1	<b>Pay &amp; Allowances</b>	142.00
22.1.2	<b>Traveling allowances</b>	2.00
22.1.3	<b>Contingencies</b>	0
22.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	3.00
22.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	2.00
22.1.3.c	<i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i>	1.50
22.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	1.00
22.1.3.e	<i>Frontline demonstrations</i>	3.00
22.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	1.00
22.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0
22.1.3.h	<i>Training of extension functionaries</i>	1.00
22.1.3.i	<i>Extension activities/services</i>	1.00
22.1.3.j	<i>Farmers' Field School</i>	0
22.1.3.k	<i>EDP (2 Nos.) / innovative activities</i>	0.50
22.1.3.l	<i>Soil &amp; water testing &amp; issue of soil health cards</i>	0.30
22.1.3.m	<i>Maintenance of building</i>	2.00
22.1.3.n	<i>Library (Purchase of Journals, Periodicals, News Papers &amp; Magazines)</i>	0.10
22.1.3.o	<i>Others, pl. specify</i>	0
	<b>Total Recurring (A)</b>	160.04
<b>22.2</b>	<b>(B). CAPITAL (Non-Recurring Contingencies)</b>	
22.2.1	<b>Equipments &amp; Furniture (Purchase of office Automations)</b>	10.00
22.2.2	<b>Works</b>	0
22.2.3	<b>Vehicle</b>	0
22.2.3.a	Four wheeler (replacement)	0
22.2.4	<b>Library</b>	0.20
	<b>Total Non Recurring (B)</b>	10.20
	<b>Grand Total (A + B)</b>	170.24

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