



**Acharya N. G. Ranga Agricultural University
and
Indian Council of Agricultural Research**



**AN OVER VIEW ON
Dr. K.L.RAO KRISHI VIGYAN KENDRA, GARIKAPADU**



**Dr. K. L. RAO KRISHI VIGYAN KENDRA,
GARIKAPADU, KRISHNA DISTRICT (A.P.)**

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An over view on Dr. K. L. Rao Krishi Vigyan Kendra, Garikapadu

Dr.K.L.Rao Krishi Vigyan Kendra, a Farm Science Centre under the administrative control of Acharya N.G. Ranga Agricultural University, Rajendranagar, Hyderabad was established at Garikapadu village, Jaggayyapet mandal, Krishna district on 03-07-2002 funded by the Indian Council of Agricultural Research (ICAR). This Krishi Vigyan Kendra is located at 12 km away from Jaggayyapet on NH-65 at 16.53°N latitude and 80.06°E longitude and an altitude of 84.4 m MSL.

Mandate

1. Conducting on/off campus training programmes to the participating farmers (Male and Female), rural youth and agricultural extension functionaries.
2. Conducting Front Line Demonstrations (FLD's) of Pulses, Oil seeds, cereals, vegetables(with the pre released and released varieties of ANGRAU and ICAR), animal husbandry, fodder crops in farmers fields.
3. Conducting On Farm Testing (OFT's) in farmers fields with latest technologies developed in different crops on location specific problems and technology refinement.
4. Production of quality seed/plant material and supply to the farmers.
5. Creating awareness in the farming community of about latest technology in agriculture, horticulture, veterinary science by conducting of extension activities like Training Programmes, Kisan Melas, and Field Visits and through Print and Electronic Media etc.
6. Creating avenues for rural women and youth through self employment generation programmes.

Dr. K.L. Rao instructional farm



Particulars	Area (Acres)
B - Block	7.82
C - Block	6.80
D - Block	10.89
E - Block	14.39
F - Block	7.15
Roads	2.13
Buildings	0.82
Total	50.00

Staff Position

S. No	Cadre	Sanctioned posts	Vacant	Name of the Scientist Positioned	Remarks
A	Scientific Staff				
1	Programme Coordinator	1	-	Dr. K.Vasanta Bhanu	Regular
2	SMS (Agril. Extension)	1	-	Dr. T.Prasantha Kumar	Regular
3	SMS (Plant Protection)	1	-	Sri.B.Venkateswarlu	Regular
4	SMS (Horticulture)	1	-	Smt.K.Madhavi	Regular
5	SMS (Crop Production)	1	1		Vacant
6	SMS (Veterinary Science)	1	1		Vacant
7	SMS (Home Science)	1	1		Vacant
B	Supporting Staff				
1	Office Superintendent	1	--	Sri.C.Satyanarayana	Regular
2	Farm Manager	1	-	Smt D. Nagasri	Regular
3	PA (Computers)	1	--	Sri. A. Raj Kumar	Temporary
4	JACT	1	1	Smt Prasanna	Regular
5	Lab Technician	1	-	G.Mahendhar Reddy	Temporary
7	Class IV	2	--	Smt V. Lakshamma	Regular
				Smt R.Somili	Regular
8	Driver cum Mechanic	2	--	Vacant	
				A. Bhaskar Rao	Outsourcing

List of Adopted Villages by the Centre

S. No.	Name of the adopted Village	Year of adoption	PRA Completed or not	Major thrust areas identified for intervention in the village based on prioritized problems to be addressed
1	Kambampadu	2019-20	Completed	Indiscriminate use of pesticides, high labour cost, injudicious use of fertilizers, inadequate irrigation water
2	Budawada	2019-20	Completed	Indiscriminate use of pesticides, high labor cost, injudicious use of fertilizers
3	Konakanchi	2019-20	Completed	Non adoption of latest technologies, indiscriminate use of pesticides, injudicious use of fertilizers, inadequate irrigation water
4	Kanneveedu (DFI)	2017-18	Completed	Nutritional imbalance, Non adoption of IPM, IDM
5	Mullapadu (DFI)	2017-18	Completed	Nutritional imbalance, Non adoption of IPM, IDM
6	Anigandlapadu	2018-19	Completed	Nutritional imbalance, Non adoption of IPM, IDM
7	Tirumalagiri	2020-21	To be Completed	---
8	Makkapeta	2018-19	Completed	Nutritional imbalance, Non adoption of IPM, IDM
9	Annavaram	2020-21	To be Completed	---

ACHIEVEMENTS MADE FOR THE PAST 10 YEARS

The following are the few achievements made for the past years through conduct of OFTs / FLDs, capacity buildings programmes etc.

1. ASSESSMENT OF PERFORMANCE AND POPULARIZATION OF NEW CROP VARIETIES:

Newly related varieties: Pre released in different crops were assessed their performance in farmers fields under OFTs; some of the released varieties popularized by conducting front line demonstrations

S.No.	Crop	Varieties	Remarks
1	Red gram	PRG 158 / LRG 30	Wilt resistant, high yielding variety
2		LRG 52 / LRG 41	Wilt resistant, high yielding variety

3	Blackgram	PU31/LBG 752	Highly resistant to YMV, non-polished seed
4		TBG 104 vs PU 31	Resistant to YMV, polished seed
5		GBG 1/PU 31	Resistant to YMV, polished seed
6		GBG12/LBG 752	Resistant to YMV, polished seed
7	Bengalgram	JG-11/Annegiri	High yielding variety
8		NBeg 47/JG - 11	High yielding variety suitable for machine harvesting
9		NBeg 49/JG -11	High yielding variety tolerant to wilt
10		NBeg 3/JG-11	High yielding variety tolerant to wilt
11	Chilli	LCA-334/Teja	Virus diseases incidence was very low
12		LCA 625/Teja	
13		LCA 620/Teja	
14	Greengram	WGG-42/LGG 460	YMV resistant high yielding variety
		IPM 2-14/TM 96-2	YMV resistant high yielding variety
15	Groundnut	K7/K6	High yielding drought resistant varieties
16		K9/K6	
17		Kadiri Harithandra/K6	
18		Dharani/Tag-24	
19		Dheeraj/Tag-24	
20	Sesamum	YLM 66/Local varieties	High yielding tolerant variety to phyllody
21	Marigold	Arka Agni	Bright red, high yielding varieties
		Arka Bangara	Bright yellow, high yielding varieties
22	Turmeric	Pragathi	Short duration high yielding variety

2. NUTRIENT MANAGEMENT PRACTICES

- **Fertigation** through drip in chilli recorded a saving of 18-20 per cent in water and 25-40 per cent in fertilizer. Suppression of weeds more than 50 per cent was also observed due to fertigation with an yield increase of 8 – 10%
- **Soil test based fertilizer application in paddy**(105:28:28 Kg/ha NPK) resulted in reduction in cost of cultivation to an extent of Rs.12500/ha than farmers practice (185:140:55 Kg/ha NPK).
- **Integrated crop management practices** in cotton viz.,Deep summer ploughing + Vermicompost @ 200 kg/ha + RDF as per soil test results + Azotobactor@2 kg/ha + PSM@2 kg/ha + Refugee crop + border crop of Jowar + Castor as trap crop for Spodoptera @ 20/acre + stem application with imidacloprid 1: 20 ratio at 20, 40&60 DAS + foliar application of Zn (0.2 %),Mg (2%),B(0.1%) + KNO₃ three sprays from 60 DAS at 15 days interval+ neem oil + need based chemical spraying with a spacing of 90 x 90 cm recorded 8% increased yield than farmers practice.
- **Foliar spray of micro nutrients** resulted in less flower & fruit drop which resulted in increased yields in chilli

3. INTEGRATED PEST MANAGEMENT PRACTICE

- Seed treatment with imidacloprid @ 8g/ kg seed, alternante sprays with chlorpyriphos 2.5ml + dichlorvos 1.25ml, triazophos 1.5ml + dichlorvos 1.25ml, diafenthiuron 1.25g + dichlorvos 1.25ml/l, fipronil2.0 ml + dichlorvos 1.25ml /l at weekly day interval for 4-5 times reduced the incidence of whitefly as well as spread of **virus diseases** to a level of 80 per cent with increased yield to the tune of 5-6% **in chilli**.
- Removal of dried branches in off season, application of neem oil to trunk up to 2m height before flowering, collection and destruction of affected fruits, spray carbaryl 3.0g /L at bud initiation and peanut stage (January 2nd week / February 1st week), Spray chloropyriphos 2.5ml+ dichlorvos 1.0 ml/L (February last week / March 1st week) and (March last week / April 1st week),

azadirachtin 1500ppm 7.0 ml/L may be mixed with insecticides in each spray effectively managed **mango fruit borer**.

- **IPM strategy against cotton sucking pest** complex viz., seed treatment with thiamethoxam 4.0g / kg; intercrops greengram/ blackgram/soybean in 1:2 or cowpea, cluster bean and korra 1:3 ratio , barrier crops maize (3 lines) or sorghum (4 lines) or non Bt cotton (3 lines), Stem application at 30, 45 DAS with monocrotophos (1:4) and at 60 DAS with imidacloprid (1:20), Yellow sticky traps @ 10 ac, spray NSKE 5% + sandovit /Teepol @ 0.5 ml/l, and need based insecticides spray effectively managed the insect pests.

4. ASSESSMENT OF NEW MOLECULES OF INSECTICIDES/ FUNGICIDES/ WEEDICIES AGAINST THE PESTS AND WEEDS

- Crop rotation and intercropping with maize,/Jowar in **redgram** with *Trichoderma viridi* seed treatment @ 8g/ kg and soil application @ 5kg /ha , Wilt resistant variety Asha / Maruthi,managed effectively the wilt disease.
- **Balanced application of fertilizers** (450 : 90 : 180 kg N, P₂O₅, K₂O per ha) in **chilli** reduced the whitening of the pod at ripening stage than farmers practice (526 : 413 : 225 kg N, P₂O₅, K₂O per ha) with 3.74% increased yield.
- Four number of consecutive strays at 8-10 days interval with NSKE 5% + chlorpyrifos 2.5ml /L at flower initiation followed by 2nd spray- chlorpyrifos 2.5ml+ dichlorvos 1.0ml /L, 3rd spray – coragen 0.3ml /L or spinosad 0.3ml /L and 4th spray - Profenophos 2.0ml/L recorded very low incidence of both **Maruca and pod fly in redgram**.
- Application of pre emergence herbicides immediately after removal of paddy sheaves like buthachlor 2.0 kg or benthiocarb 2.0 kg or pendimethalin 1.5 kg. a.i./ha mixed in 20 kg of sand and imajithapyr @ 1.5 ml/L of water at 15-20 days after sowing **effectively controlled weeds** like cuscutta, cyperus, cynodon, *oodha*, *chippera* except Cladosperma, wild *Occimum Sps*, *linga miriyalu* in **rice fallow black gram**.
- Bispyribac Sodium @ 80 ml/acre at 15 DAS in the nursery and at 15 DAT in the main field controlled effectively grasses, broad leaf weeds and Cyprus in **rice**. An amount of Rs.4500/ha could be saved by using herbicides for weed control
- **Pre and post emergence weed control indirect seeded rice** by application of oxadiargyl @ 35-50 g/acre at 3-5 DAS and bispyribac sodium @ 80 ml/acre at 15 DAS controlled effectively grasses, broad leaf weeds and Cyperus with a saving of Rs.7500/ha on weeding.
- Intercropping with mustard (25:2), spraying of NSKE+ spinosad (0.3ml/l) reduced the incidence of diamond back moth in cabbage.

5. ASSESSMENT OF NEW METHODS OF PLANTING

- **Comparasion of HDPS** with Suraj varietyin **cotton** at a spacing of 70 x10 cm (Rainfed black soils) and 60 x10 cm (Rainfed red soils) recorded a saving Rs 9300/ha in cost of cultivation than farmers practice.
- **Rice cultivation with various methods** under NSP Left canal viz., direct sowing with eight row drum seeder, mechanical transplanting resulted in higher yields and reduced cost of cultivation than manual transplanting.

6. ASSESSMENT OF IMPROVED BREEDS OF GOAT/POULTRY

- Introduced new breeds of goats i.e., Black Bengal and Osmanabadi and poultry breeds i.e. Gramapriya, Vanaraja, Rajasri, Turkey birds, Khakicambell duck etc.

7. ASSESSMENT OF NEW IMPROVED FODDER GRASSES

- Introduced new fodder crop varieties i.e. Perennial Fodder Sorghum Co FS 29, Anjan grass, Super Napier etc.

8. ASSESSMENT OF PERFORMANCE OF DRUDGERY REDUCTION IMPLEMENTS

- Assessed the performance of cycle weeder, easy planter, mango harvester, finger guard for harvesting bhendi, cotton picking bags, fodder cutting gloves etc.

9. ASSESSMENT OF PERFORMANCE OF ALTERNATE CROPS TO VEGETABLES

- Marigold cultivation is found to be very economical. The crop can be grown with limited use of plant protection chemicals unlike vegetable crops. The B:C ratio was recorded as 2.27:1 in marigold and 1.84:1 in vegetables.
- Demonstration on performance of *Dolichos* bean as alternate vegetable crop to cauliflower was established.

10. RESOURCE CONSERVATION TECHNOLOGIES

- Deep ploughing and Conservation furrow in redgram mainly useful in harvesting of excess rainfall during crop growth and it will also keeps the soil moist for longer period and recorded higher grain yields.
- Rapid multiplication of turmeric using single bud rhizome through portray rising reduced the seed rhizome requirement by 2.5 times.

Capacity building Programmes

Year	Intervention (Training, G.D., Exposure Visits etc.)	No.	No. of Beneficiaries	Technology addressed
2010-11	Training	36	1080	IPM, IDM, INM, IWM, Cost reduction technologies, Production technologies in rice, cotton, chilli, maize, blackgram, mango, vegetables Income generation activities for farm women
	Group discussion	96	2019	
	Method demonstration	12	176	
	Exposure visit	1	40	
2011-12	Training	49	1470	Production, protection technologies in Farm implements, storage techniques rice, cotton, chilli, maize, blackgram, mango, vegetables. Backyard poultry, nutrition garden. IPM, IDM, INM, IWM, Soil test based fertilizer use in crops
	Group discussion	102	2154	
	Method demonstration	15	228	
	Exposure visit	1	40	
2012-13	Training	51	1530	IPM, IDM, INM, IWM, Quality seed production, Integrated farming systems approach, Value addition in agriculture, horticulture, veterinary sectors, Production strategies, Soil test based fertilizer use in crops
	Group discussion	114	2359	
	Method demonstration	17	245	
	Exposure visit	1	40	
2013-14	Training	44	1320	IPM, IDM, INM, IWM, IFS, cost reduction technologies, Value added and home care products, Soil test based fertilizer use in crops
	Group discussion	126	2849	
	Method demonstration	18	285	
	Exposure visit	4	100	
2014-15	Training	57	1710	Soil test based fertilizer use in crops, Value added and home care products IPM, IDM, INM, IWM, IWM cost reduction technologies
	Group discussion	142	2956	
	Method demonstration	21	329	
	Exposure visit	1	25	
2015-16	Training	69	2139	Soil test based fertilizer use in crops, Value added and home care products IPM, IDM, INM, IWM, IWM cost reduction technologies
	Group discussion	134	3090	
	Method demonstration	50	1192	
	Exposure visit	69	2139	
2016-17	Training	52	1489	IPM, IDM, INM, IWM, Quality seed production, Integrated farming systems approach, Value addition in agriculture, horticulture, veterinary sectors, Production strategies, Soil test based fertilizer use in crops
	Group discussion	72	1531	
	Method demonstration	57	1649	
	Exposure visit	2	30	
2017-18	Training	66	2606	IPM, IDM, INM, IWM, Cost reduction

	Group discussion	87	1904	technologies, Production technologies in rice, cotton, chilli, maize, blackgram, mango, vegetables Income generation activities for farm women
	Method demonstration	61	1545	
	Exposure visit	4	60	
2018-19	Training	34	1176	IPM, IDM, INM, IWM, Cost reduction technologies, Production technologies in rice, cotton, chilli, maize, blackgram, mango, vegetables Income generation activities for farm women
	Group discussion	41	1312	
	Method demonstration	27	626	
	Exposure visit	4	80	
2019-20	Training	77	1995	IPM, IDM, INM, IWM, Cost reduction technologies, Production technologies in rice, cotton, chilli, maize, blackgram, mango, vegetables Income generation activities for farm women
	Group discussion	47	1261	
	Method demonstration	17	350	
	Exposure visit	3	60	

Diagnostic field visits undertaken

Year	Visits made alone	Along with other Departments
2010-11	16	11
2011-12	23	9
2012-13	19	14
2013-14	21	18
2014-15	15	27
2015-16	64	54
2016-17	88	48
2017-18	42	35
2018-19	35	36
2019-20	30	12

External funding

Year	Funding agency	Purpose	Amount (Rupees in lakhs)
2010-11	FSR	Demonstrations on Farming Systems Research	1.0
2011-12	RKVY	Popularization of P fertilizer savings in crops employing soil test services and demonstrations in Andhra Pradesh	1.775
	WTC		9.82
		Total Rs.	12.595
2012-13	RKVY	Field testing and popularizing Integrated Farming (Farming Systems Approach) for sustainable livelihoods	5.52
	WTC	Demonstrations, trainings	5.0
	FSR	Demonstrations on Farming Systems Research	0.7
		Total Rs.	11.22
2013-14	RKVY	Skill development trainings, exposure visits, season long training	1.3
	AICRP	Demonstrations	0.12
	RKVY-Bhuchetana	Soil test based fertilizer use in crops	0.63
	WTC	Trainings to farmers and extension personnel on water saving technologies, Demonstrations	4.15
	ATMA	Demonstrations, kisan mela	2.2
		Total Rs.	8.4
2014-15	RKVY-TOT	Information kiosk, information centre, trainings & FLDs on responsive use of fertilizers in paddy for sustainable yields at farmer level	7.2
	RKVY-Promoting Extension Services	Skill development trainings, exposure visit, season long training	1.035
	WTC	Demonstrations on water saving technologies	4.0
		Total Rs.	12.235
2015-16	ATMA	Mini Pulverizer	0.035
	PPVFRA	Protection of Plant Varieties and Farmers' Rights Act 2001	0.80

	APWSIP	Adaptive Research component- Demonstrations	7.6
	ICAR	Kisan sammelan 2015	0.80
		Kisan sammelan 2016 (PMFBY)	1.85
		FLD on pulses	0.075
	ATMA	Mini Pulverizer	0.035
		Total Rs.	11.195
2016-17	ATMA	Hydroponic fodder, Bio char production, Kitchen gardening	1.00
	RKVY	Seed Processed & Storage Godown	22.00
	RKVY	Custom hiring Centre	16.00
	RKVY	Mushroom spawn & Production unit	19.00
	RKVY	Micro Irrigation Unit	3.50
		Total Rs.	61.50
2017-18	ATMA	Skill Training of Rural Youth – 0.84 Movable dipping Tank – 0.25	1.09
	NABARD	Publication of literature	0.81
	APWSIP	Book Publication	0.65
		Total Rs.	2.55
2018-19	ATMA	Skill Training of Rural Youth – 0.84 Training demonstrations, capacity building, field days and innovative activities – 0.50	1.34
	RKVY	Soil testing laboratory	33.25
	ICAR- RKVY	Skill development training programme	3.54
	SERP	Rural poverty for uplifting of the livelihood of small and marginal farmers in Andhra Pradesh	0.24
		Total Rs.	38.37
2019-20	ICAR- RKVY	Skill development training programme on Quality seed grower	1.8
	SERP	District and Mandal level training programme to the FPO' officials and farmers on rice and maize production technologies	0.54
	SERP	Master trainers and refresher training programme to FPO' farmers on rice and maize production technologies	0.375
	SERP	District and mandal level training programme to the SHGs on value added products of millets, backyard poultry etc.	0.82
	SERP	Mandal level Food and feeding demonstrations	0.32
	ATMA	Vermicomposting – Income and employment generation	0.42
	SERP	Demonstrations and organization of field days in FPO mandals in cotton, rice and maize crops	0.587
	BEE	Energy Efficiency and demand side management in agriculture sector	0.187
	ICAR	Paramparagat Krishi Vikas Yojana (PKVY)	3.33
	IMD-ICAR	District Agromet units (DAMU)	5.58
		Total Rs.	13.93

CFLD pulses and oil seeds conducted

Crop	Kharif	Rabi	Summer	Area (ha)
2016-17				
Redgram	33	--	--	20
Blackgram	--	43	--	20
Sesamum	--	--	26	20
Total	33	43	26	60
2017-18				
Greengram	50	--	--	20
Blackgram	--	75	--	30
Groundnut	50	50	--	40
Sesamum	--	75	--	30
Total	100	200	--	120
2018-19				
Greengram	75	--	--	30

Redgram	50	--	--	20
Bengalgram	50	--	--	20
Blackgram	50	--	--	20
Groundnut	75	50	--	50
Sesamum	--	50	--	20
Total	300	100	--	160
2019-20				
Greengram	25	--	--	10
Redgram	50	--	--	20
Bengalgram	--	50	--	20
Groundnut	50	--	--	20
Sesamum	--	--	25	10
Total	125	50	25	80
2020-21				
Redgram	30	--	--	30
Greengram	10	--	--	10
Blackgram	--	10	--	10
Groundnut	30	--	--	30
Groundnut	--	20	--	20
	70	30		100

Demonstration Units of KVK, Garikapadu and income generation during 2019-20

S No	Name of the unit	Year of establishment	Area	Details of the unit			Amount (Rs)		Remarks
				Variety	Produce	Quantity	Cost of inputs	Gross income	
1	Dairy	2011	1 unit	HF cross cow	Milk	1	31,000/-	5,775/-	
		2017	1 unit	Hf cross calves	Milk	1			
				Jersey sahiwal	Milk	2			
				Jersey calves		2			
		2011	1 unit	Graded Murrah Calves	Milk	1		45,346/-	
						3			
2	Sheep	2011	1 unit	Nellore brown	Rams	5	38,000/-	2,37,411/-	--
					Ewes	32			
		2017	1 unit	Narisuvarna	Rams	2		22,780/-	
					Ewes	9			
4	Goat	2013	1 unit	Black bengal	Doe lambs	2			
					Buck lamb	2			
		2015	1 unit	Osmanabadi	Does	6	--	12,000/-	--
					Buck kids	3			
3	Poultry	2018	1 unit	Kadaknath	Eggs and	10	12,250/-	5,740/-	--
				Desi birds	chicken	6			
				Rajasri	Chicken	5			
				Vanaraja	Chicken	6			
4	Duckery	2018	1 unit	Bangalore ducks	--	10	5000/-	--	
4	Vermicompost	2013	1 unit	--	compost	500 kg	1500/-	2300/-	Used for farm, shadenet
5	Apiculture	2018	9 units	<i>Apis mellifera</i>	Honey	-	--	--	Used for training and demonstration

Performance in Seed Production by KVK, Garikapadu during 2019-20

Crop / Variety	Details of Production		Amount (Rs.)		Remarks
	Area (ha)	Quantity (q/ha)	Cost of Inputs (Rs)/ha	Gross income (Rs)	
Paddy BPT 5204 (TLS)	15	246.2	1,83,530.00	9,84,800.00	Rs 40/Kg
Redgram LRG 52 (FS)	12	24.85	1,46,570.00	2,36,075.00	Rs 110/Kg
Sesamum – YLM 66 (TLS)	0.4	0.5	7100.00	6500.00	--
Chilli – LCA 616 & LCA 625(TLS)	0.4	0.2	20,945.00	16000.00	--
Desmanthus - Hedge Lucerne (TLS)	0.1	0.0225	--	1575.00	--
Sunhemp	0.2	0.4	--	--	--

Additional infrastructure developed

- KVK building, Farmers hostel, training hall, information centre, Staff quarters
- Three open wells with different dimensions was dug for assured water supply for raising rice nurseries in advance and vegetable fruit crops cultivation at this farm besides water supply to demo units, office, quarters etc.,
- Demo units namely Dairy, Poultry, sheep, goat, Azolla, Vermicompost, Shade Net, fodder crops, kitchen garden are maintaining
- Spawn and mushroom production unit, custom hiring centre and seed storage godown and seed processing unit and oil testing laboratory were newly constructed.

Research papers /Popular articles/ Press notes/Radio programmes/TV programmes/ Technical bulletins

S.No.	Year	Research papers	Popular articles	Press notes	Radio programmes	TV programmes	Technical bulletins
1	2010-11	-	18	49	8	5	7
2	2011-12	-	9	51	6	1	3
3	2012-13	-	12	56	6	14	3
4	2013-14	12	13	83	1	20	2
5	2014-15	2	28	95	5	23	9
6	2015-16	--	14	74	11	45	8
7	2016-17	6	22	201	8	5	13
8	2017-18	--	14	183	6	13	5
9	2018-19	2	45	103	3	8	11
10	2019-20	3	20	80	7	6	13

Major Seed Production at KVK, Garikapadu for the past 10 years

Year	Crop-Variety (KGs)		
	Rice- BPT 5204	Rice- MTU 1010	Redgram –LRG 41/ LRG-52
2010-11	3960	7666	652.5
2011-12	24370	15721	2099
2012-13	31950	--	1250
2013-14	23013	4448	1370
2014-15	19542	31415	595
2015-16	31065	24368	1860
2016-17	5700	--	600
2017-18	7000	6000	4700
2018-19	30000	---	2800
2019-20	24600	--	2485

Seed production during Kharif 2020-21

S. No	Crop & Variety (s)	Date sowing of	Date planting of	Target (Q)	Area sown (ac)	Stage of the crop
1	Paddy (BPT 5204) (K)	07.07.2020 & 14.07.2020	31.07.2020 to 14.08.2020	200	14	Harvested
2	Redgram (LRG 52)	01.07.2020	--	24	7.0	Harvested
3	Greengram (LGG 607)	27.06.2020	--	04	2.0	Crop failed due to heavy rains
4	Blackgram (TBG 104)	20.06.2020	--	04	2.0	Harvested
5	Blackgram (GBG 12)	08.07.2020	--	02	1.0	Crop failed due to heavy rains
6	Blackgram (GBG 1)	08.07.2020	--	02	1.0	
7	Redgram (LRG 105)	14.07.2020	--	2.5	1.0	Harvested
8	Groundnut (Dharani)	24.06.2020	--	2.0	1.0	Crop failed due to heavy rains
9	Paddy (Rabi) (BPT 5204)	21-11-2020 and 4-12-2020	24-12-2020 to 12-01-2021	200	15	Mid boot to flowering
10	TBG 104 (Rabi)	04-0-2021		8	2	Maturity
11	LGG 607 (Rabi)	17-01-2021		1	4	Vegetative

Demonstration of technologies at present

S.no.	Demo unit	Area	Crops
1	Shadenet	500 sq.mt	Marigold, Turmeric chrysanthemum, Tomato Cabbage, Cauliflower etc
2	Orchards with micro irrigation	0.5 acre	ber
		1 acre	Pomegranate
		1 acre	Custard apple
3	Ornamental & medicinal plants demo	0.5 acre	Philodendron, Sansevieria , Alternanthera, Portulaca, Euphorbia, Tradescantia, Chlorophytum, Chrysanthemum, Ajwain, Turmeric, Aloe vera, Pothos
4	Nutri garden Crop cafeteria	0.17	Vegetable, Leafy vegetables, Fruits, Pandal plants, Medicinal plants, Pulses
5	Organic farming	0.4 ac	Rice
6	OFT on fall army worm management	0.5 ac	Maize
7	Wee management in blackgram	0.5 ac	blackgram
8	Management of viral diseases in blackgram	0.5 ac	blackgram

Budget Details 2020-21

S. No	Particulars	Amount Sanctioned (Rs.)	Amount Spent up to this month (Rs.)	Balance (Rs.)
1	Pay & Allowance	92,86,000	8132921	1153079
2	Travelling Allowance	1,30,000	47330	82670
3	Office Contingencies (A)	4,00,000	393155	6845
4	Technical Programme (B)	7,30,000	459621	270379
5	SCSP Component	1,30,000	1, 29, 940	60
6	IFS	200000	128280	71720
	Total Rs.	1,08,56,000	92,71,307	15,84,693

Revolving Fund

Year	Opening balance	Receipt	Expenditure	Balance
2010-11	873595.39	6,95,327.50	8,06,986.50	7,61,936.39
2011-12	7,61,936.39	11,80,608.00	8,77,153.50	10,65,390.89
2012-13	10,65,390.89	10,65,782.00	6,41,595.00	14,89,577.89
2013-14	14,89,577.89	10,60,024.00	11,48,119.00	14,01,482.89
2014-15	14,01,482.89	18,41,911.00	19,04,464.00	13,38,929.89
2015-16	13,38,929.89	15,55,144.50	16,79,789	12,14,285
2016-17	12,14,285	9,56,987	10,99,965	10,71,307
2017-18	10,71,307	12,72,837	22,69,710	74,434 (+ Rs. 10,00,000/- Fixed deposit)
2018-19	74,434	21,92,841	21,63,472	1,03,803
2019-20	1,03,803 + 10,84,014 (Disclosed fixed deposit along with interest) = Rs.11,87,817/-	21,11,938	25,68,284 (includes cost of Seed godown height increase)	7,31,471
2020-21	7,31,471	19,43,441	14,67,013	12,07,899 As on 30.10.2020

Ongoing Programmes (2020-21)

Abstract of Technical programme for the year 2020-21							
S.No	Name of the Discipline	Nature of intervention			Trainings		
		OFT	FLD	Ext. Studies	PF	RY	EF
1.	Agronomy	4	4	--	6	1	1
2.	Plant Protection	4	4	--	8	1	1
3.	Horticulture	5	3	--	7	1	1
4.	Home Science	2	4	--	4	5	4
5.	Agril. Extension	--	--	3	6	1	1
6.	Veterinary Science	--	3	--	5	2	2
TOTAL :		15	18	5	36	11	10

Technical Programme of Subject Matter Specialists

Name of the Scientist : Vacant

Discipline : Subject Matter Specialist (Crop Production)

I. On – farm trials :

S.No	Title	Treatments	No of locations
1	Assessment of Deep ploughing and Conservation furrow for higher yields in redgram	T ₁ - Deep ploughing (with M.B plough) and Conservation furrow T ₂ - Deep ploughing with (with M.B plough) T ₃ - Farmers practice (Usage of secondary tillage implements)	5
2	Soil test based fertilizer application in paddy for sustainable yields at farmer level	T1 - Soil Test Based Fertilizer application T2 - 100 % recommended dose of fertilizer (80-90 Kg N, 60 Kg P ₂ O ₅ , 40-60 Kg K 2O ha ⁻¹) T3 - Farmers practice	5
3	Evaluation of YMV tolerant GBG-12 in Blackgram	T1 - GBG-12 T2 - GBG-1 T3- Farmers use variety (LBG 752/PU 31)	5
4	Assessment of biofertilizers along with inorganic fertilizers in paddy for higher yields	T1 - Azospirillum 500 ml/ac+ 75% RDN Phosphorus solubilizing bacteria 500 ml/ac (PSB) +75 % RDP Potassium mobilize bacteria 2kg/ac (PMB) +75 % RDK	5

		T2- Recommended fertilizer application T3- Farmers practice	
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Frontline demonstrations

S. No	Title	Treatments	No of locations
1	Demonstration of greengram as an inter crop in Redgram (1:6)	T1 - Redgram+ greengram(1:6) T2 - Farmers practice (Sole Redgram)	10
2	Demonstration of Redgram variety LRG 52 for higher yields	T1 - Redgram variety LRG 52 T2 - Farmers practice (Redgram variety LRG 41/Private varieties)	10
3	Demonstration of YMV tolerant blackgram variety TBG 104 for higher yields	T1 - TBG 104 T2 - Farmers practice (PU 31/LBG 752)	10
4	Demonstration of weed management in blackgram through pre and post emergence application of weedicides	T1-Application of Pre emergence herbicide immediately after sowing (<48 hrs.) alachlor 5.0 ml per litre and post emergence application of sodium acefluorfen 16.5% + clodinafop propargyl 8% EC@ 2 ml per litre of water at 25-30 DAS. T2- Farmers practice	10

Name of the Scientist : Sri B.Venkateswarlu

Discipline : Subject Matter Specialist (Plant Protection)

I. On – farm trials :

S.No	Title	Treatments	No of locations
1	Assessment of IPM modules in organic rice (OFT)	Treatments T₁ - Seed treatment with <i>Trichoderma viride</i> @ 8 g/Kg of seed, application of vermicompost 200 Kg /acre, FYM @5 t/acre, green manure crop incorporation, installation of pheromone traps @ 4-5 /acre, soil application of <i>Pseudomonas fluorescens</i> (Pf) 2 Kg /acre along with 100 kg FYM, azadirachtin 1500 ppm 1 lit /acre. T₂ - (IPM) Seed treatment with tricyclozole @ 1 g/Kg of seed, application of FYM @ 5 t/acre & recommended doses of fertilizer application on soil test basis, application of carbofuran 3 G @ 160 g /cent nursery bed, clipping of leaf tips of seedlings, alley ways formation, installation of pheromone traps 4-5 /acre, need based application of pesticides. T₃ - Farmers' practice : Indiscriminate use of insecticides and fungicides in paddy	5
2	Management of viral disease in blackgram	T₁ : Selection of tolerant variety (TBG-104), seed treatment with imidacloprid 60 FS @ 5 ml /Kg of seed, installation of yellow and blue sticky traps 20 /acre each, jowar/maize/bajra as border crop, removal & destruction of viral infected plants & weeds, spraying of azadirachtin 1500 ppm @ 5 ml/L at 20 DAS, need based application of insecticides T₂ : High yielding YMV susceptible variety (LBG-752) with IPM practices T₃ : Farmers practice (Indiscriminate use of insecticides)	5
3	Assessment of IPDM modules in gourds	T1: Selection of tolerant hybrids, seed treatment with imidacloprid 60 FS @ 5 ml /Kg of seed, installation of yellow and blue sticky traps 20 /acre each, jowar/maize/bajra as border crop, removal & destruction of viral infested plants & weeds, spraying of azadirachtin 1500 ppm @ 5 ml/L at 20 DAS, need based application of insecticides T2:High yielding YMV susceptible hybrids with IPM practices T3: Farmers practice (Indiscriminate use of insecticides)	5
4	Management of Fall Army Worm (FAW) in Rabi maize	T₁: IPM • Summer ploughing , Seed treatment Fortenza duo (cyantraniliprole + thiamethoxam) @ 4 ml/Kg • Collection & Destruction of egg masses • Pheromone traps (<i>S. frugiperda</i>) @ 4 no's/ac • Border crop with grain sorghum & inter crop with cowpea (few rows) • azadirachtin 10000 ppm @ 2 ml/l (10 to 15 DAS) • EPN or Bt spray @ 2 ml/l (15 to 21 DAS) • First insecticide spray - emamectin benzoate 5 SG @ 0.4g/l (or) spinosad 480 SC @ 0.5 ml/l (21-28 DAS)	5

		• <i>Metarhizium anisopliae</i> spray (1x10⁷) @ 2 ml/lt (30-35DAS) • Second Insecticide spray - flubendiamide 480 SC @ 0.3 ml/l (or) chlorontrilniprole 18.5 SC @ 0.3ml/l or spinetoram 11.7 SC @ 0.3 ml/l (36 – 42 DAS) (ICAR-IIMR, Ludhiana/ DPPS&Q) T2: Farmers' practice- use of insecticides after observing the damage	
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II. Frontline demonstrations

S. No	Title	Treatments	No of locations
1	Management of alternaria leaf spot / blight (ALB) disease in cotton	T1- IDM strategy – Technology Assessed • Removal and destruction of crop debris after harvest • Seed treatment with vitavax 4 g per Kg seed • Prophylactic spraying of propiconazole 1ml • Need based spraying of captan + hexaconazole 1g per liter of water at 60 and 75 DAS T2 - Farmers practice (indiscriminate use of fungicides and spraying of carbendazim 1 g/l of water)	10
2	Integrated pest management strategies for pink bollworm in cotton	T1: IPM strategy Deep summer ploughing, removal and destruction of plants of previous season. Non Bt refuge Grow early maturing varieties Monitoring for pest (PBW) incidence with pheromone traps @ 10 no //ha Adopt efficient and timely agronomic practices Need based insecticides sprayings T2: Farmers practice (indiscriminate use of pesticides after observing the damage)	10
3	Management of <i>Choanephora</i> blight in chilli	T1: Recommended practice - spraying of copper oxychloride 30 g + streptocycline 1 g / 10 lit of water at flowering stage and 2 nd spray at 10 days interval after 1 st spray T2: Farmers practice – Spraying of fungicides indiscriminately.	10
4	Management of powdery mildew in mango	T1: Recommended Practice: Removal of dried branches in off season, collection and destruction of infected twigs, application of wettable sulphur 3 g / l of water at bud initiation and flowering stage (January 2 nd week / February 1 st week) later need based application of hexaconazole 2 ml / l of water at panicle stage. T2: Farmers Practice (insanitation of orchards and indiscriminate use of fungicides)	10

Name of the Scientist: Smt K. Madhavi

Discipline: Subject Matter Specialist (Horticulture)

I. On – farm trials :

S.No	Title	Treatments	No of locations
1	Rapid multiplication of turmeric using single bud rhizome	T1- Protray raising of seedlings var. Mydukur T2- Direct sowing of var. Mydukur T3- Protray raising of seedlings var. Pragathi T4- Direct sowing of var. Pragathi	5
2	Assessing the performance of Tomato Hybrids Arka Abhed and Arka Samrat	T1: Arka Abhed T2 :Arka Samrat T3 : Local tomato variety	5
3	Performance of Ridge gourd variety Arka Prasan	T1: Arka Prasan T2: VNR-AARTI , T3: Jaipur long	5
4	Assessment of Inter-cropping in pre-bearing mango orchards	T1: Mango intercropping with Dolichos bean T2: Mango intercropping with French bean T3:Sole crop without intercrop	5

II. Frontline demonstrations

S. No	Title	Treatments	No of locations
1	Demonstration of Integrated weed management in Tomato	T1 : Blanket application with fluchloralin @ 1 kg a.i per hectare at 2 days after transplanting. Inter row spraying with metribuzine @ 750 g per hectare at 15 days after transplanting. Hand weeding at 30-35 days after transplanting.	10

		T2: Farmers practice: Manual weeding	
2	Demonstration of Soil test based nutrient application in chilli	T1: Fertilizer application based on soil test. T2: Farmers practice Indiscriminate use of macro nutrients in the form of complex fertilizers and no application of micro nutrients.	10
3	Demonstration of root knot nematode management in guava	T1: Application of FYM (100 kg)+Neem cake (250g) + <i>Paecilomyces Lilacinus</i> (25g) per tree T2: Farmers practice 0.4 ha per location	10

Name of the Scientist: Vacant

Discipline: SMS (Home Science)

I. On – farm trials :

S.No	Title	Treatments	No of locations
1	Dehydration of vegetables and fruits through different drying techniques.	T1: Solar drier T2: Electric cabinet drier T3: Farmer's practice	5
2	Assessment of moringa based millet biscuits in improving the nutritional status of vulnerable groups	T1: Millet +Moringa powder biscuits T2:Millet biscuits T3: Normal biscuits	5

II. Frontline demonstrations

S. No	Title	Treatments	No of locations
1	Demonstration of women friendly drudgery reducing equipment	T1- weeding with wheel hoes T2- Manual weeding (Farmer's practice)	10
2	Demonstration on nutri-garden for ensuring year long availability of vegetables.	T1 :Households with Nutri- gaden (YSRHU Model) FP : Households without Nutrigarden or Growing 2 to 3 vegetables without any model	10
3	Demonstration of triple layer hermetic bags for storage of pulses	T1:Triple Layer Hermetic Storage bags FP :Gunny bags	10
4	Demonstration of fruit toffees	T1 : Toffees made with standardized procedure Papaya toffees / Guava toffees / Mango toffees) FP: Eating raw fruit Promotion of cotton hand gloves for cutting of fodder and bhendi	10

Name of the Scientist : Vacant

Discipline : Subject Matter Specialist (Animal Husbandry)

I. Frontline demonstrations

S. No	Title	Treatments	No of locations
1	Demonstration of <i>Super /Thai</i> Napier a Perennial Multi cut in Upland Mandals of Krishna District	T1: <i>Super /Thai Napier</i> T2:APBN1 (Farmers practice)	10
2	Demonstration of <i>Mineral Mixture</i> and <i>Deworming</i> in Desi Pigs in Upland Mandals of Krishna District	T1: Supplementation of <i>Mineral Mixture</i> and <i>Deworming</i> in Desi Pigs T2: Non adoption of mineral mixture and deworming drugs (Farmers practice)	10
3	Demonstration of <i>Broad-spectrum Deworming drug</i> and <i>ND Vaccination of backyard poultry birds</i> in Upland Mandals of Krishna District	T1: Deworming with broad spectrum antehelmenthic drugs and following vaccination schedule T2:-Farmers practice (No vaccination and deworming)	10

DEMONSTRATION UNITS



Cattle Unit



Sheep and goat Unit



Poultry and Duckery unit



Fodder crops



Vermi compost



Azolla unit



Drip irrigation with mulching



Shadenet

INFRASTRUCTURE FACILITIES



Farmers hostel



Mini Soil Testing lab



Custom hiring centre



Mushroom and spawn production unit



Seed storage godown



Soil testing laboratory



Solar panels

FARM FACILITIES



Mini tractor



Mini tractor drawn seed drill



Seed cum fertilizer drill



Boom sprayer



Mini Rotavator



Mulching machine



Pulverizer mill



Mini Dall Mill



Egg incubator



Chaff cutter



Mobile sheep dipping tank



Mini Shade net



Farm Ponds



Paddy seed production



Redgram seed production

EXTENSION ACTIVITIES



Collection of Soil samples at Kannevedu village, Vatsavai mandal, Krishna district on 09.06.2020.



Celebrated Acharya N.G.Ranga Agricultural University Establishment Day on 12.06.2020



Attended virtual SLTP meeting and the Programme Coordinator presented Work done report 2019-20 and tentative Action plan 2020



Rythu Dinotsavam on 08.07.2020



Attended Virtual Annual Zonal Work Shop of KVK for the year 2020 and Presented Work done report for the year 2019-20 and action plan for the year 2020-21 on 24.07.2020.



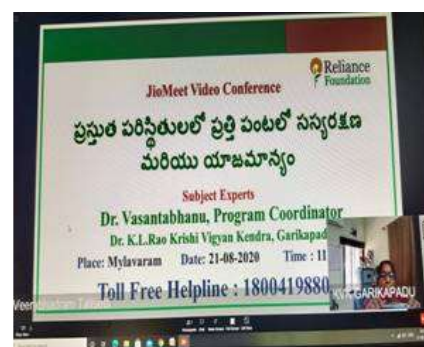
Training programme to Paddy and Maize farmers at RBK Adavinekkalam, Agiripalli mandal on 21.07.2020



Shri K. Srinivas (Vijay), Hon'ble Member of Parliament, Vijayawada visited KVK, Garikapadu and interacted with the staff members of KVK, Garikapadu on 10.08.2020



Programme Coordinator, KVK, Garikapadu along with Project Director, ATMA, and other DRC members conducted diagnostic field visits on 17.08.2020 at Perakalapadu and 25.08.2020 at Chandragudem.



Attended virtual meeting to farmers in collaboration with Reliance foundation on management of cotton during heavy rains on 21.08.2020



Attended orientation programme on Food processing and Preservation for entrepreneurs organized by Small and Medium entrepreneurs chamber of Commerce, Vijayawada on 05.09.2020



Attended as a resource person in Virtual Meeting on Usage Of PP Chemicals and Pest and Diseases on Paddy, Cotton & other major crops to Jaggaiahpet and Nandigama Sub Divisions VAAs on 08.09.2020



Organized one day awareness training programme on "POSHAN MAAH"-Capacity Development of Anganwadi Workers and Farm Women on Poshan on 17.09.2020



participated in DAMU Annual Review Workshop organized by ATARI, Zone X and presented Annual Progress report of 2019-20 of DAMU project on



Field visits on 23rd, 24th and 25th Sep 2020 at Paritala, Anigandlapadu and Utukuru villages along with DRC team



Attended Diagnostic Field visit to Cotton fields along with Department staff at and Damuluru village on 06.10.2020 and 23.10.2020



Attended Diagnostic field visit to Paddy and Cotton fields submerged by floods in Nandigama mandal by Hon'ble Vice Chancellor, ANGRAU Dr.A.Vishnuvardhan Reddy, Director of Extension, Director of Research and KVK, Garikapadu staff on 15.10.2020



Celebrated Kisan Mahila Diwas at Annavaram village, conducted rangoli, debate competitions and distributed prizes for winners on 15.10.2020



Attended diagnostic field visit along with MAOs and VAAs of different mandals on 2nd, 5th 7th, 9th, 10th, 11th Nov, 2020



Dr. Y. Padmalatha, Associate Director of Research, RARS, Lamfarm, Guntur and Dr. B. Govinda Rao, Director (Seeds), Administrative Office, ANGRAU, Lam, Guntur visited KVK, Garikapadu monitored foundation seed production plots of Paddy (BPT 5204) and Redgram (LRG 52) on 12.11.2020



Attended as a resource persons in the Training programme on Rabi preparedness 2020-21 to VAAs, VHAs at Mylavaram, Nadigama and Nuzvid organized by the DRC Krishna including Department of Agriculture personnel on 18th, 19th, and 20th Nov, 2020



attended Rythu Sadassu cum Agricultural Exhibition at Damulu village of Ibrahimpatnam mandal organized by the students of RAWEP 2020-21 batch on 18.11.2020



attended Diagnostic field survey in Penuganchiprolu, Nandigama, Chandarlapadu, Kanchikacherla, G.Konduru mandals on 28.11.2020



Organized World soil day on 05.12.2020