વિસ્તરણ શિક્ષણ નિયામકની કચેરી
આણંદ કૃષિ યુનિવર્સિટી
આણંદ - ૩૮૮ ૧૧૦

વંચાણે લીધો: કુલ સચીવશ્રીની કચેરી જા.નં. આકૃયુ/રજી/એકેડેમીક/૧૮મો વા.અ(૧૪૮)/૬૯૨૭-૩૮/૨૦૨૨, તા.૦૧/૦૪/૨૦૨૨ નો પત્ર.

પરિપત્ર

સમય મર્યાદા /તાત્કાલિક

જયભારત સહ વંચાણે લીધેલ પત્ર અન્વયે જણાવવાનું કે આણંદ કૃષિ યુનિવર્સિટીનો સને ૨૦૨૧-૨૦૨૨ના વર્ષનો (તા.૦૧/૦૪/૨૦૨૧ થી ૩૧/૦૩/૨૦૨૨ સુધી) ૧૮મો વાર્ષિક અહેવાલ યુનિવર્સિટીના કોમન સ્ટેચ્યુટની આઇટમ નંબર એસ.૧૧૨.૨ મુજબ તથા આ સાથે સામેલ ચેપ્ટર-૫ પ્રમાણે તૈયાર કરવાનો રહે છે. આપના હસ્તકના કેન્દ્રમાં વર્ષ ૨૦૨૧-૨૦૨૨ માં થયેલ વિસ્તરણની તમામ પ્રવૃત્તિઓને આવરી લેતો અહેવાલ અંગ્રેજીમાં નીચેની વિગતે માઈક્રોસોફ્ટ વર્ડમાં તૈયાર કરી આનુસંગિક ફોટોગ્રાફ્સ (હાઈ રીઝોલ્યૂશન) અલગથી aaunews@aau.in ઉપર ઈ-મેઈલથી તથા હાર્ડ કોપી બે નકલમાં અત્રેની કચેરીને તા.૨૫/૦૪/૨૦૨૨ પહેલાં મોકલી આપશો. વધુમાં સદર માહિતી આ સાથે સામેલ વર્ષ ૨૦૨૦-૨૦૨૧ ના વાર્ષિક અહેવાલના ચેપ્ટર-૫ પ્રમાણે જ ગોઠવી મોકલી આપવા જણાવવામાં આવે છે. જેથી સદર માહિતી કમ્પાઈલ, એડીટીંગ તથા પ્રકાશિત કરવામાં સરળતા રહે, જેની ખાતરી જે તે કચેરીના યુનિટ અધિકારીશ્રીએ સ્વયં કરી ત્યાર બાદ જ આગળ મોકલવી.

(૧)	પેજ સેટ અપ	: પેપર સાઈઝ	: એ-૪
		મિરર માર્જીન	: ટોપ-૦.૧ ઈંચ, બોટમ-૦.૫ ઈંચ લેફ્ટ-૧.૫ ઈંચ, રાઈટ-૦.૫ ઈંચ
		હેડર એન્ડ ફૂટર	: ૦.૫ ઈંચ
(૨)	ફોન્ટ	: અંગ્રેજી અહેવાલ માટે	: ટાઈમ્સ ન્યુ રોમન
		ફોન્ટ સાઈઝ	: ૧૨
(૩)	ટાઈટલ એન્ડ સબ ટાઈટલ	: બોલ્ડ કરવા	
(૪)	પેજ નંબર	: પેજની જમણી બાજુએ ફૂટરમાં આપવા	

જા.નં.આકૃયુ/વિશિનિ/પ્રકાશન/વા.અ.-૨૦૨૧-૨૨/ટે-૧/ ૯૬ /૨૦૨૨ વિસ્તરણ શિક્ષણ નિયામક
તા.૧૩/૦૪/૨૦૨૨

નકલ સવિનય રવાના જાણ સારૂ
(૧) માન.કુલપતિશ્રીના રહસ્ય સચિવશ્રી, આકૃયુ, આણંદ
(૨) કુલસચિવશ્રી, આકૃયુ, આણંદ

નકલ રવાના જાણ તેમજ ઘટતુ થવા સારૂ
(૧)આણંદ કૃષિ યુનિવર્સિટીના તમામ યુનિટ/સબ યુનિટ અધિકારીશ્રીઓ/વિભાગીય વડાશ્રીઓ તરફ
(૨) નિયામકશ્રી, ઇન્ફોર્મેશન ટેકનોલોજી,આકૃયુ, આણંદ તરફ સદર પરિપત્ર વેબસાઈટ ઉપર મૂકવા સારૂ

Chapter 5

Extension Education

The Directorate of Extension Education has to plan, coordinate, organize and guide the extension education programmes in the University and to ensure efficient working of the extension education activities in close coordination with the development departments, voluntary and private organizations. Moreover, this Directorate encourages, guides and supports the extension education centers of the University to organize different extension education activities for the benefit of the farming community.

Extension Education Council

The Extension Education Council has been constituted to consider and recommend the extension education programmes/activities of the University. The thirteenth meeting of the Extension Education Council was held on 17/07/2020 at Yagnyavalkya Hall, AAU, Anand under the chairmanship of Dr. R. V. Vyas, Former Vice Chancellor, AAU, Anand. The fourteenth meeting of the Extension Education Council was postponed due to COVID-19 pendemic. The following members of the Extension Education Council actively participated in the thriteenth meeting.

1	Dr. R. V. Vyas, Former Vice-Chancellor, AAU, Anand	Chairman
2	Dr. V. P. Ramani, Representative of Director of Research & Dean, PG Studies, AAU, Anand	Member
3	Dr. P. R. Vaishnav, Former Dean, Faculty of Agriculture, AAU, Anand	Member
4	Dr. M. N. Bhrambhat, Dean, Faculty of Vety. Science, AAU, Anand	Member
5	Dr. Y. C. Zala, Principal & Dean, International Agri-Business Management Institute, AAU, Anand	Member
6	Dr. J. B. Prajapati, Principal & Dean, Faculty of Dairy Science, AAU, Anand	Member
7	Dr. H. C. Patel, Principal & Dean, College of Horticulture, AAU, Anand	Member
8	Dr. R. F. Sutar, Representative of Dean, Faculty of Food Processing Tech. & Bio-energy, AAU, Anand	Member
9	Dr. R. Subaiah, Principal & Dean, College of Agricultural Engineering & Technology, AAU, Godhra	Member
10	Dr. Y. R. Ghodasara, Former Principal & Dean, Agricultural Information Technology, AAU, Anand	Member
11	Dr. N. B. Chauhan, Former Professor & Head, Agricultural Extension and Communication Department, BACA, AAU, Anand	Member
12	Dr. B. D. Patel, Representative of Director, Extension Education Institute, AAU, Anand	Member
13	Dr. Smita S. Pillai, Representative of Director of Agriculture, Gujarat State, Gandhinagar	Member
14	Dr. Snehal M. Patel, Representative of Director of Animal Husbandry, Gujarat State, Krushi Bhavan, Gandhinagar	Member
15	Dr. H. B. Patel, Former Associate Director of Extension Education, DoEE, AAU, Anand	Member

16	Dr. B. M. Mehta, Senior Scientist, KVK, Mangalbharati, Dist.Chhotaudepur	Member
17	Shri P. K. Sharma, Senior Scientist & Head, KVK, Dethali, Dist.Kheda	Member
18	Dr. Girish G. Patel, Ex. Senior Scientist & Head, KVK, Devataj	Member
19	Dr. Girish J. Patel, Training Organiser, Tribal Research cum Training Centre, AAU, Devgadhbaria	Member
20	Dr. V. J. Patel, Assoc. Professor, Polytechnic in Agri., AAU, Anand	Member
21	Shri P. R. Dave, Dy. Director of Farmer Training Centre, Thasara, Dist. Kheda	Member
22	Shri Parmar Kamlsinh Chandrasinh, Progressive Farmer, Sardiya, Ta: Sankheda, Dist; Chhota Udepur	Member
23	Dr. Arun Patel, Former Director of Extension Education, DoEE, AAU, Anand	Member Secretary
24	Dr. S. D. Patel, Training Associate, DoEE, AAU, Anand	Invitee Member
25	Dr. M. R. Patel, Assistant Professor, DoEE, AAU, Anand	Invitee Member
26	Dr. D. D. Patel, Ex. Technical Officer, VC Office, AAU, Anand	Invitee Member
27	Shri P. C. Patel, Assistant Professor, DoEE, AAU, Anand	Invitee Member
28	Shri J. D. Desai, Assistant Professor, DoEE, AAU, Anand	Invitee Member
29	Shri S. A. Sipai, Assistant Professor, DoEE, AAU, Anand	Invitee Member

Zonal Research and Extension Advisory Committee (ZREAC)

The Committee consists of Director of Research, Deans of the faculty, representatives of line departments, centers of extension education, crop and subject matter specialists, co-operative sectors, industries and progressive farmers. Meetings are conducted regularly twice in a year (*kharif* and *rabi* season). The committee discusses in depth about the adoption and its feedbacks on research recommendations and existing transfer of technology programmemes. The approved recommendations are then passed on to the concerned. The ZREAC meeting was held for *Rabi* season on 17/12/2020 & for *Kharif* season on 12/02/2021.

Centers of Extension Education

Under the aegis of Directorate of Extension Education, following centers/ activities are functioning:

Training in Baking Technology

Sr. No.	Type	Name of Centre / Training	Location
1	Certificate Courses	Training in Baking Technology	Anand
		Training in Commercial Poultry Farming / Advanced Training in Commercial Poultry Technology	
		Training in Gardening, Landscaping and Nursery Management	
2	Special Training Programmes	Training Programme on Food Processing Technology	
		Training Programme on Organic Farming	
		Training Programme on Weed Management	
		Training Programme on Integrated Pest Management	
		Training Programme on Medicinal and Aromatic Plants	
		Training Programme on Seed Production	
3	Training Centres for Extension Functionaries	Extension Education Institute (EEI)	Anand
		Training and Visit Training Scheme (T&V)	
4	Training Centers for Farmers/ Farm Women/ Rural Youth	Sardar Smruti Kendra (SSK)	Anand
		Krushi Vigyan Kendra (KVK)	Arnej (Dist.Ahmedabad)
		Krushi Vigyan Kendra (KVK)	Dahod
		Krushi Vigyan Kendra (KVK)	Devataj (Dist. Anand)
		Tribal Training Centre (TTC)	Dahod
		Tribal Research cum Training Centre (TRTC)	Devgadhbaria Dist: Dahod
		Tribal Farm Women Training Centre (TFWTC)	
		Dairy Vigyan Kendra (DVK)	Vejalpur Dist:Panchamahals
		Pashu Vigyan Kendra (PVK)	Limkheda, Dist: Dahod
		Transfer of Technology Centre for Tribal (TOT)	Godhara Dist:Panchamahals
		Farm Technology Training Centre (FTTC)	Sansoli Dist: Kheda
		Training Centre (TC)	Jabugam Dist: Chhotaudepur
		Demonstration cum Training Centre for Inland Fish Culture (DTCIF)	Devataj Dist: Anand

Sr. No.	Type	Name of Centre / Training	Location
5	Advisory Services	Agricultural Technology Information Centre (ATIC)	Anand
		Transfer of Technology Centre (TOT)	Arnej Dist: Ahmedabad
		Agri Polyclinic Centre (APC)	Dahod
		Publication Unit (PU)	Anand
		Sardar Patel Agricultural Educational Museum (SPAEM)	Anand
6	Others	NARP Extension Scheme (MMRS)	Godhra Dist: Panchmahals
		NARP Extension Scheme (ARS)	Arnej Dist:Ahmedabad
		Krushi Mahotsav	Anand
		Krushi Library	

Extension Education Schemes

Under the Directorate of Extension Education, Twenty two plan schemes, seven non-plan schemes, four ICAR schemes and five other agencies schemes are running and the details are given in Annexure 5.1.

Front Line Demonstrations, On-Farm Trials and Case Studies Conducted by Extension Education Centers

(i) Front Line Demonstrations (FLDs)

The FLDs are aimed to demonstrate the production potentialities of newly released and pre-released production technologies on farmers' fields. The KVKs and other extension education centers had organized total **3454 FLDs** on various crops, farm implements, livestock and fishery during *Kharif, Rabi* and Summer seasons. The details of FLDs conducted during the year 2020-21 are given in Tables 5.1 to 5.9.

Table 5.1 FLDs conducted by KVK, Arnej (Dist. Ahmedabad)

(A) Oilseeds/Pulses/Cereals/Horticulture Crops/Commercial Crops/Livestock/Other Enterprises

Sr. No.	Crop/ Enterprise	Technology Demonstrated	Variety	No. of Farmers	Area (ha)	Average Yield of the Demo. Plot (q/ha)	Local Yield (q/ha)	Yield Increase (%)
1	Castor	Wilt resistance variety	GAC 11	10	04	24.30	19.50	24.62
2	Chickpea	Pheromone Trap	GJG 3	10	04	11.50	10.00	15.00
3	Chickpea	Seed treatment	GJG 3	10	04	11.80	10.10	16.83
4	Chickpea	Bio agent	GJG 3	10	04	12.10	10.10	19.8.0
5	Paddy	Introduction of improved variety	Mahisagar	10	04	59.00	51.00	15.69
6	Wheat	Micronutrient ZnSO4	GADW 3	10	04	14.00	12.50	12.00
7	Tomato	Introduction of improved variety	GAT 5	10	04	284.00	270.00	5.19
8	Okra	Jassid, Thiamethoxam	GAO 5	05	02	95.00	83.00	14.46
9	Okra	Introduction of improved variety	GAO 5	05	02	94.00	83.00	13.25
10	Cumin	Azoxistrobin 23 SC, 0.23 % 10 ML/ 10 Lit of Water	GC 4	10	04	6.70	6.20	8.06
11	Cumin	Introduction of improved variety	GC 4	10	04	6.60	6.10	8.20
12	Dilseed	Introduction of new crop and variety	GAD 1	10	04	8.30	7.00	18.57
Livestock								
13	Cattle	Bypass fat	-	15		8.10 (Milk yield L/ anim./day)	7.20 (Milk yield L/ anim./day)	12.50
14	Cattle	Bypass Protein	-	15		480 (gm/day)	320 (gm/day)	50.00
15	Cattle	Calf Starter	-	15		280 (gm/day)	150 (gm/day)	86.67
16	Cattle	Milk replacer	-	15		250 (gm/day)	140 (gm/day)	78.57
17	*Cattle*	Mineral Mixture	-	15		8.4 (Milk yield L/anim./ day)	7.5 (Milk yield L/anim./ day)	12.00

Other Enterprises								
18	Drudgery Reduction	Revolving Milking Stool and Stand	1.Time of Operation (Min)	5		5.70	6.20	8.00
			2. Psychological Parameter			7.2.0	8.40	14.30
19	Paddy	Paddy Trans Planter-Manual	1.Manhour/Ha 2. Cost of Operation (Rs/Ha)	5	2	60 hrs & 4200.00	333 hrs & 8250.00	31.90 49.10
20	Paddy	Electric Operated Paddy Thresher	Threshing Capacity (Kg/H)	5	2	190	60.00	216.67

Table 5.2 FLDs conducted at KVK, Dahod

(A) Pulses/ Cereals/ Horticulture Crops

Sr. No.	Crop/ Enterprise	Technology Demonstrated	Variety	No. of Farmers	Area (ha)	Average Yield of the Demo. Plot (q/ha)	Local Yield (q/ ha)	Yield Increase (%)
1	Maize	Introduction of new hybrid Variety + Bio-fertilizer	GAYMH 1	57	20	17.45	14.50	20.34
2	Pigeon pea	Introduction of new Variety + Bio- fertilizer	AGT 2	25	10	10.50	08.30	26.50
3	Wheat	Introduction of new Variety + Bio- fertilizer	GW 451	25	10	27.50	23.80	15.54
4	Tomato	Introduction of new Variety + Bio - fertilizer	GAT 5	20	04	305.10	242.55	25.78
5	Chilli	Introduction of new Variety + Bio - fertilizer	GVCH 1	20	04	100.12	86.49	15.75
6	Brinjal	Introduction of new Variety + Bio - fertilizer	GAOB 2	20	04	312.32	261.00	19.66
7	Okra	Introduction of new Variety + Bio - fertilizer	GAO 5	20	04	96.00	82.24	16.73
8	Gram	Chorantranilliprole	-	25	10	13.50	12.10	11.57
9	Gram	Trichoderma	-	25	10	12.40	11.60	06.90
10	Green Gram	Flubendiamide	-	10	04	07.56	07.13	06.03
11	Soybean	Chorantranilliprole	-	25	10	12.35	10.80	14.35
12	Maize	Carbofuran 3G	-	25	10	14.60	13.10	11.45

(B) Livestock

Sr. No.	Category	Thematic Area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters			% change in major parameter	Other parameter		
						Name of Parameters	Demo	Check		Name of Parameters	Demo	Check
13	Cattle	Fertility management	Mineral mixture feeding	20	1	Fertility rate %	60	20	200.00	Succesful Conception	60	-
14	Cattle	Feeding management	Probiotic feeding	20	1	kg/animal	9.84	8.07	21.93	Average body weight gain per day per calf (g)	109.35	-
15	Buffalo	Dairy management	Deworming and Disinfestation	50	1	Milk yield L/ ani./day	4.51	3.82	18.06	Fat Corrected Milk	4.51	-
16	Buffalo	Fertility Management	Ovsynch Protocol	20	1	Fertility rate %	65	15	333.33	Succesful Conception	65	-
17	Poultry	Breed evaluation	Breed evaluation	20	20	kg/bird	0.94	0.91	3.30	Average body weight per bird at 5 months age (g)	940	-

(C) Performance of Cluster Frontline Demonstrations (CFLD)

Sr. No.	Crop	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Average yield of the demo. Plot (q/ha)	Local yield (q/ha)	Yield increase (%)
15	Green gram	Introduction of new Variety + Bio- fertilizer	GAM 5	25	10	6.7	5.55	20.72
16	Soybean	Introduction of new Variety + Bio- fertilizer	NRC 37	50	20	14.22	12.45	14.21
17	Gram	Introduction of new Variety + Bio- fertilizer	GJG 3	50	20	12.70	10.45	21.53

Table 5.3 FLDs Conducted at KVK, Devataj (Dist. Anand)

Sr. No	Crop/ Enterprise	Technology Demonstrated	Variety/ Breed	No. of Demo.	Area (ha)	Production of Demo. plot (q/ ha)	Local Production (q/ha)	Production Increase (%)
1	Paddy	Varietal Introduction	GAR 14	10	4.0	33.60	43.2	-22.22
2	Paddy	Management of Paddy leaf folder	Gurjari	10	4.0	58 (q/ha)	54 (q/ha)	7.41
						14 (Damage %)	31 (Damage %)	-
3	Wheat	Varietal Introduction	GW 451	10	4.0	36.00	29.6	21.62
4	Castor (CFLD)	Seed + Trichoderma viridi + Bio fertilizers + Sulphur	GCH 10	75	30	25.60	20.80	23.07
5	Greengram (summer-2020) CFLD	YVMV resistant Variety + Biofertilizer + Sulphur + Neem oil	GAM 5	75	30	11.20	9.6	16.67
7	Chickpea	Seed Priming Treatment	GJG 5	10	4.0	19.20	15.20	26.32
8	Chickpea	Management of chickpea pod borer	GG 2	10	4.0	14.5 (q/ha)	11.5 (q/ha)	29.46
						5 (Damage %)	20 (Damage %)	-
Horticultural Crops								
7	Brinjal	Management of brinjal shoot and fruit borer	Doli 5	10	4.0	299 (q/ha)	242 (q/ha)	23.55
						4 (Damage %)	21 (Damage %)	
Livestock & Fisheries								
8	Fodder	Sorghum	COFS 29	10	4	730	560	30.36
9	Fodder	Guinea Grass	GG 3	10	4	810	580	30.66
10	Livestock	Anubhav Chelated Mineral Mixture	Buffalo	50	-	9.1 litre/day	8.0 litre/day	13.75
						7.0 % Fat	6.0 % Fat	1.00
11	Livestock	By pass fat	Buffalo	20	-	9.8 litre/day	7.5 litre/day	30.67
						50 % Conception rate	25 % Conception rate	25.00
12	Fishery	Fry to fingerling production	Rohu	10	5	9.6	8.25	16.36
13	Fishery	Use of Hapa for Nursery rearing of Rohu spawn	Rohu	10	2	1.78	1.44	23.61

Table 5.4 FLDs Conducted at TRTC, Devgadh Bariya

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Demo.	Area (Ha)	Yield (kg/ha)		Yield Increase (%)
						Demo	Local	
Kharif Season								
1	Soybean-Maize	Soybean-Maize intercrop	NRC 37 and Maize: GAYMH 3	8	2	23,560/- Rs (Profit in soybean-maize intercrop)	20670/- Rs (Profit in sole soybean crop)	2890/- Rs/ ha (Over sole soybean crop)
2	Soybean	Girdle beetle management	-	4	2	1285	962	33.57
3	Soybean	Sucking pest management	-	4	2	1145	872	31.30
4	Soybean	Improved variety	NRC 37	12	3	1275	910	40.10
5	Soybean	Weed management	-	4	2	1090	895	21.80
6	Soybean	Sowing distance	NRC 37	2	1	1267	1035	22.42
7	Soybean	Seed rate	NRC 37	2	1	1315	1040	26.45
8	Soybean	Residual effect of soybean on *Rabi* maize	NRC 37	2	1	1215	910	33.51
9	Maize	Hybrid variety	GAYMH 1	2	1	3240	2410	34.43
10	Maize	Hybrid variety	GAWMH 2	2	1	3155	2360	33.68
11	Maize	Hybrid variety	GAYMH 3	2	1	3316	2418	37.13
12	Maize	Nutrient management	GAYMH 1	2	1	3244	2380	36.30
13	Maize	Nutrient management	GAWMH 2	2	1	3245	2320	39.90
14	Cotton	Nutrient management	G.COT 8	2	1	2826	1978	42.88
Rabi Season								
15	Chick pea	Improved variety	JG 14	2	1	1930	1440	34.07
16	Wheat	Monocoat and dicot weeds management in improved variety	GW 451	4	2	4590	3870	20.15
17	Maize	Hybrid variety	GAYMH 1	2	1	3470	2500	38.80
18	Maize	Hybrid variety	GAYMH 2	2	1	3510	2620	33.96

19	Maize	Hybrid variety	GAWMH 3	2	1	3495	2540	37.59
20	Maize	Nutrient management	GAYMH 1	2	1	3610	2550	41.56
21	Maize	Nutrient management	GAYMH 2	2	1	3725	2710	37.24
22	Maize	Residual effect of soybean on *Rabi* maize	GAWMH 3	2	1	3530	2550	38.43
23	Maize	Fall army worm management	-	2	1	3640	2590	40.54
Summer								
24	Mung bean	Improved variety	GAM 5	4	2	1085	860	26.16

Table 5.5 FLDs Conducted at ARS, Sansoli

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Demo.	Area (ha.)	Yield of Demo. (q/ha)	Yield of check (q/ha)	Yield Increase (%)
1	Castor	Varietal Introduction	GCH 10	40	16	34.80	29.80	16.77
2	Castor	Varietal Introduction	GAC 11	100	40	28.30	27.40	03.28
3	Wheat	Varietal Introduction	GW 451	13	5.2	48.40	38.70	25.06

Table 5.6 FLDs Conducted (Area Specific Mineral Mixture) at DVK, Anand

Sr. No.	No. of Demonstrations Conducted (Area Specific Mineral Mixture)		
	No. of demonstrations	No. of beneficiaries farmers	Kg mineral mixture allotted to individual farmer
1	1959	1959	3 kg per farmer
Total	**1959**	**1959**	**5877 kg**

Table 5.7 FLDs conducted at MMRS, AAU, Godhra

Sr No.	Technology demonstated	Variety	No.of demonstration	Area (ha)	Demo.yield (kg/ha)	Local yield (kg/ha)	Yield Increase (%)
Bio-fertilizer project							
***Kharif*-2020**							
1	Bio-fertilizer technolgy	GAYMH 1	70	28	2056	1775	15.90
***Rabi*-2020-21**							
2	Bio-fertilizer technolgy	GAYMH 1	50	20	3508	2899	15.07
AICRP Trails FLDs							
***Kharif*-2020**							
1	Hybrid variety	GAYMH 1	12	4.8	3567	2892	23.45
***Rabi*-2020-21**							
2	Bio-fertilizer technolgy	GAYMH 1	13	5.2	3862	3108	24.33
Adaptive Trials FLDs							
***Kharif*-2020**							
1	Bio-fertilizer technolgy	GAYMH 1	10	4	3631	2958	22.76
***Rabi*-2020-21**							
2	Bio-fertilizer technolgy	GAYMH 1	13	5.2	3872	3142	23.25

Table 5.8 Demonstration Conducted at Paddy Research Station, Dabhoi

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Demo.	Area (ha.)	Yield of Demo. (q/ha)	Yield of check (q/ha)	Yield Increase (%)
1	Paddy	Newly developed variety of paddy	GAR 14	46.84	-	-	46.84	-
2	Paddy	Use of leaf colour chart in Paddy crop	GAR 13	54.98	53.40	2.96	54.98	53.40
3	Wheat	Irrigation at critical growth stages in wheat	GW 496	30.58	29.35	4.19	30.58	29.35
4	Wheat	Weed management in wheat with premix broad spectrum herbicides (GW 496)	GW 496	24.75	-	-	24.75	-
5	Gram	Cultivation of gram with one irrigation at branching stage	GJG 3	10.95	10.64	2.91	10.95	10.64
6	Gram	Use of biofertilizer recommendation in gram	GJG 3	11.24	10.82	3.88	11.24	10.82
7	Green Gram	Use of biofertilizer in summer green gram	GAM 5	15.00	06.00	11.14	10.72	03.91
8	Green Gram	Nutrient management through organic source in summer green gram	GAM 5	10.00	4.00	11.05	10.63	03.95

Table 5.9 FLDs conducted at Training Centre for Tribal Farmer, Dahod

Sr. No.	Crop & Variety	Technology Demonstrated	No. of Farmers	Average Demo. Yield (Kg ha^{-1})	Average Grain Yield of Local Check (Kg ha^{-1})	Yield Increase (%)
1	Soybean (NRC 37)	New Variety	5	1055	880	19.88
2	Maize (GAYMH 1)	Recommended Fertilizer (160:60:00 kg NPK ha^{-1}) management in Maize	3	4150	3250	27.69
3	Maize (GAWMH 2)	Recommended Fertilizer (160:60:00 kg NPK ha^{-1}) management in Maize	3	4275	3330	28.37
4	Maize	Fall army worm pest management in rabi maize crop	10	3715	2785	25.03
5	Green Gram (GAM 5)	Green Gram with Bio fertilizer (Rhizo. + PSB)	7	1165	810	3047

(ii) On Farm Testing (OFTs)

The aim of On Farm Testing is identifying technologies in terms of location specific sustainable land use system. The KVKs had organized a total of **145 OFTs** on various crops/enterprises. The details of the OFTs conducted during the year 2020-21 are given in Table 5.10 to 5.12.

Table 5.10 OFTs conducted at KVK, Arnej (Dist. Ahmedabad)

(A) **Cereals and Vegetable Crops**

Sr. No.	Crop / Enterprise	Title of OFT	Technology Assessed	No. of Trials	Yield kg/ha	Net Return (Profit) in ₹/Unit	BC Ratio	Results of Assessment	Feedbacks from the Farmers
1	Paddy	Assessment of recommended practices for control of Stem Borer in rice	T1.Farmer's practice	5	48.40	51,335	2.80	Cartap Hydrochloride 4G 25 kg/ha (1 kg ai/ha) gives higher production with net return and less percentage of infected plant	Cartap Hydrochloride 4G control the rice stem borer as well as other damaging sucking insect. Use of pheromone trap in paddy is not feasible
			T2.Cartap Hydrochloride 4G 25 kg/ha (1 kg ai/ha)		55.10	60,865	3.02		
			T3. Pheromone trap @ 30 trap/ha kept in after 30 days of transplanting of paddy with equal distance		53.00	57,090	2.88		
2	Wheat	Assessment of recommended dose of fertilizer and micronutrient in GADW 3	T1.Injudicious use of fertilizer and no use of micronutrient (Farmers Practice)	5	5.77	14425	3.50	20 Kg phosphorus + 25 kg Zinc Sulphate (as a basal Dose) + 20 kg Nitrogen gives higher yield, higher net return and more number of tillers.	Application of basal doze of fertilizer along with Zinc Sulphate and two irrigation in duram Wheat gives higher yields
			T2. 20 kg phosphorus + 25 kg Zinc Sulphate (as a basal Dose) + 20 kg Nitrogen will be given at the 1st irrigation		6.32	15800	3.50		

Sr. No.	Crop / Enterprise	Title of OFT	Technology Assessed	No. of Trials	Yield kg/ha	Net Return (Profit) in ₹/Unit	BC Ratio	Results of Assessment	Feedbacks from the Farmers
			T3. Seed treatment with Azotobactor @ 30 gm / kg seed + 20 kg phosphorus + 25 kg Zinc Sulphate (as a basal Dose)		6.03	15075	3.50		
3	Wheat	Assessment of seed treatment for control of Termite in wheat	T1.Farmer's practice (No seed treatment)	5	5.58	14,130	3.62	Seed Treatment with Chlorpyriphos 20 EC @ 4 ml / kg seed (0.8 gm ai / kg seed) or fipronil 5 SC @ 5 ml / kg seed (0.025 gm ai / kg seed) before sowing of 24 hours with one irrigation at grain formation stage gives higher yield and higher net return and less percentage of infected plant.	Seed treatment with Chlorpyriphos is feasible and easy to adopt practice to control the termite in Goradu soil
			T2.Seed Treatment with Chlorpyriphos 20 EC @ 4 ml / kg seed (0.8 gm ai / kg seed) or fipronil 5 SC @ 5 ml / Kg seed (0.025 gm ai / kg seed) before sowing of 24 hours		5.98	15,230	3.67		
			T3. T2 + One irrigation given at a grain formation stage		6.17	15,995	3.86		
4	Isubgul	Varietal assessment of Isubgul cv.GI4	T1. Cultivation of local variety of Isubgul (Farmers Practice)	5	9.55	48,450	3.13	Cultivation of Isubgul cv.GI4 is better than local variety	No shedding is found in GI4
			T2. Cultivation of Isubgul cv.GI4		10.20	53,100	3.27		

Sr. No.	Crop / Enterprise	Title of OFT	Technology Assessed	No. of Trials	Yield kg/ha	Net Return (Profit) in ₹/Unit	BC Ratio	Results of Assessment	Feedbacks from the Farmers
5	Coriander	Varietal assessment of coriander cv. GC-3	T1.Cultivation of local variety (Farmers Practice)	5	8.8	41,100	3.00	Varietal evaluation of coriander cv. GC3 is better than Cultivation of local variety (Farmers Practice)	Aroma is good and resistant to powdery mildew
			T2.Varietal evaluation of coriander cv. GC3		12.35	65,750	4.18		
6	Wheat	Assessment of seed bed preparation implements in wheat crop in *Bhal* region	T1. Farmers practices (2 Cultivator + 2 BhalKaliyu)	5	12.4	39,550	11.27	Use of Zero-till drill for direct sowing of wheat after rice was found to be advantageous in terms of 50-60% saving in time and 35-40% saving in cost of sowing as compared to the conventional practice. The machine saves about Rs. 1500-2000/ ha	Good practice to reduce seed bed preparation operation cost in Wheat crop Saves energy
			T2. Cultivator + Rotavator +Seed drill		13.1	42,950	15.81		
			T3. Zero Till Drill		12.4	41,600	24.11		
7	Tomato	Assessment of different type of hand operated wheel hoe in tomato crop in Bhal region	T1. Use of Sickle (Farmer's practice)	5	Not Applicable			The maximum weeding efficiency with'Sickle' was observed because of the capability of this hand tools to work between plant-to-plant spaces in a row.	1. Good practice to reduce weeding operation cost in tomato crop. 2. Save time

Sr. No.	Crop / Enterprise	Title of OFT	Technology Assessed	No. of Trials	Yield kg/ha	Net Return (Profit) in ₹/Unit	BC Ratio	Results of Assessment	Feedbacks from the Farmers
			T2. Use of Wheel hoe (CIAE Bhopal)					Push type cycle weeder and push and pull type wheel hoe cannot be used for closer plants. This may be the reason for low weeding efficiency. As weeding is a labour consuming process and because of minimum field capacity of 'Sickle' the cost of operation 'Sickle' for weeding was maximum. Use of wheel hoe for weeding in tomato was found to be advantageous in terms of 50-60% saving in time and 50% saving in cost of sowing as compared to the conventional practice of weeding.	3. It is effective for inter-culturing and weeding. 4. Less time consumes during weeding operation
			T3. Use of push and pull type wheel hoe (CAET-Godhra)	Not Applicable					
8	Fruits and Vegetables	Shelf-life assessment of fruits and vegetables using vegetable preservator	T1. Farmer's entrepreneur practice	5	Not Applicable			Supply of Vegetable preservator increase the shelf-life days and decrease the spoilage percentage in vegetables	Increase the shelf-life days and decrease the spoilage percentage in vegetables
			T2. Use of vegetable Preservator (CRIDA, Hyderabad)						

Table 5.11 OFTs conducted by KVK, Dahod

Crop/ Enterprise	Problem Definition	Title of OFT	No. of Trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of Assessment	BC Ratio	Feedback from the Farmers
Gram	Low yield due to poor quality seed or variety	Varietal Testing of Tomato	03	T_1: GG 1 (Farmers practices) T_2: JG 14 T_3: GJG 3 T_4: GG 5	Yield, Cost of Cultivation	Grain yield (q/ha) T_1: 9.35 T_2: 10.45 T_3 : 12.50 T_4 : 11.25	The higher yield was observed in GJG 3 as compare to other	T_1: 1.67 T_2: 1.75 T_3 : 2.06 T_4 : 1.86	GJG 3 and GG 5 variety has very less infestation of wilt
Wheat	To identify new wheat variety for Dahod district	Varietal assessment of Wheat	03	T_1: Lok 1 (Farmers practices) T_2: GW 496 T_3: GW 451 T_4: GW 463	Yield, Cost of Cultivation	Grain yield (q/ha) T_1: 22.00 T_2: 27.55 T_3 : 28.15 T_4 : 27.25	The higher yield was observed in GW 451 as compare to other	T_1: 1.79 T_2: 2.09 T_3 : 2.13 T_4 : 1.98	GW 451 is high yielding as well as having good quality
Tomato	Low yield due to poor quality seed or variety or planting materials	Varietal Testing of Tomato	03	T_1: Local (Farmers practices) T_2: GT 2 T_3: GAT 5 T_4: Kashi Aman	Yield, Cost of Cultivation	Grain yield (q/ha) T_1: 215.3 T_2: 254.8 T_3 : 317.0 T_4 : 296.8	GAT 5 Variety of Tomato gave higher yield and net realization	T_1: 2.79 T_2: 3.52 T_3 : 4.23 T_4 : 3.96	Less infestation of tomato leaf curl virus and early blight disease
Brinjal	Low yield due to poor quality seed or variety or planting materials	Varietal Testing of Brinjal	03	T_1: Local (Farmers practices) T_2: GAOB 2 T_3: GABH 3 T_4: Kashi Sandesh	Yield, Cost of Cultivation	Grain yield (q/ha) T_1: 230.39 T_2: 281.16 T_3 : 320 T_4 : 313.65	Higher production observed in GABH 3	T_1: 2.79 T_2: 3.39 T_3 : 3.81 T_4 : 3.73	High Yielding Variety, Less infestation of sucking pest.

Crop/ Enterprise	Problem Definition	Title of OFT	No. of Trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of Assessment	BC Ratio	Feedback from the Farmers
Castor	Low yield in castor due to spodoptera	Management of spodoptera in castor	03	T_1: Farmer practices (No insecticide use) T_2: Quinalphos 25 EC @ 20 ml per 10 litre water T_3: Chlorantrani-lliprole 18.5 SC @ 3 ml per 10 litre water	Grain yield and larval population per plant	Grain yield T_1: 13.1 T_2 : 14.6 T_3 :15.5 Plant Damage (%) T_1: 7.3 T_2 : 3.5 T_3 : 2.4	T_3 encountered minimum disease incidence as well as given maximum yield	T_1: 1.62 T_2 : 1.78 T_3 : 1.88	chlorantran-illiprole found effective in reducing spodoptera infestation in castor
Pigeon Pea	Low yield in Pigeon Pea due to wilt	Management of wilt in Pigeon Pea	03	T_1: Farmer practices (No insecticide use) T_2: carboxin 37.5 % + thirum 37.5 %@3g/kg seed followed by seed treatment with trichoderma viride @ 10g/ kg seed	Grain Yield and per cent disease & Cost of cultivation	Grain yield T_1: 6.4 T_2 : 7.4 T_3 :7.6 Plant Damage (%) T_1: 8.5 T_2 : 3.7 T_3 : 3.4	T_3 encountered minimum spodoptera larval population as well as given maximum yield	T_1: 1.37 T_2 : 1.55 T_3 : 1.58	trichoderma found effective against wilt in pigeonpea

Crop/ Enterprise	Problem Definition	Title of OFT	No. of Trials	Technology Assessed	Parameters of Assessment	Data on the Parameter	Results of Assessment	BC Ratio	Feedback from the Farmers
				T_3: T_2+ Trichoderma viride @ 1 kg/100 kg seed FYM at the time of sowing					
Animal Science	Low body weight, low income among the chicken reared by farmers	Poultry breed testing	30	T_1 : North Gujarat poultry breed T_2: South Gujarat poultry breed T_3: Kadaknath poultry breed	Monthly body weight (kg/bird), Mortality and Economics	T_1: 1.17 T_2 : 1.21 T_3 : 1.13 Mortality (%) T_1: 48 T_2 : 42 T_3 : 36	Kadaknath birds have a higher sale price resulting in higher economic gain	T_1: 1.24 T_2 : 1.39 T_3 : 1.41	South Gujarat breed gains weight faster
Animal Science	Negative energy balance in high yielding buffaloes	Rectifying negative energy balance in high yielding buffaloes	08	T_1 : Farmers' practices (No by-pass nutrient feeding) T_2: T1 + 200 g by-pass fat T_3: T1 + 100 g by-pass fat + 100 g by-pass protein T_4: T1 + 200 g by-pass fat + 100 g by-pass protein	Milk yield (Milk yield L/anim./day) and Milk fat (%)	T_1: 9.3 T_2 : 10.08 T_3 : 9.68 T_4 : 10.28 Mortality (%) T_1: 6.46 T_2 : 6.71 T_3 : 6.51 T_4 : 6.71	The yield increased over control (T_1) was 8.38, 4.08, and 10.53 per cent in T_2, T_3 and T_4 respectively.	T_1: 1.88 T_2 : 1.86 T_3 : 1.87 T_4 : 1.86	Animal readily feeds on by-pass protein feed material but is reluctant to feed on by-pass fat.

Table 5.12 OFTs Conducted at KVK, Devataj (Dist. Anand)

(A) Agriculture

Sr. No	Crop/ Enterprise	Title of OFT	Technology Assessed	No. of Trials	Parameters of Assessment	Data on the Parameter	Net return in ₹/ Unit	B:C Ratio	Result of Assessment	Feedbacks from the Farmers
1	Paddy	Varietal Assessment of Aromatic Rice varieties	GAR 14	03	Yield (q/ha.)	30.40	14070	1.43	GAR 14 gave -17.39 % yield than GAR 1	Vegetative growth of plant is higher in GAR 14 than GAR 1. but no. of unfilled grain per panicle was found higher than GAR 1
			GAR 1			36.80	24580	1.72		
2	Okra	Assessment of convenient method to control of Shoot and fruit borer in Okra	T_1- Farmers practice	5	Yield (q/ha.)	160	154000	3.85	25 % yield increased in T2	With the use of recommended IPM module for management of shoot and fruit borer in okra more yield and less infestation of shoot and fruit borer was found
					Infestation %	19				
			T_2- IPM Module (Seed treatment Imidaclopride 9ml/ kg + Removal and destruction damage shoots and fruits + Pheromone Trap 60/ ha, Change lure at 21 days interval+ Clontraniliprol 0.006% spray+ NSKE 5% spray 35 days after sowing +Emamectin 0.0025% + BT Powder 5wp (10g/10ltr water) +NSKE 5% spray 65 days after sowing		Yield (q/ha.)	200	200500	4.37		
					Infestation %	5				

Sr. No	Crop/ Enterprise	Title of OFT	Technology Assessed	No. of Trials	Parameters of Assessment	Data on the Parameter	Net return in ₹/ Unit	B:C Ratio	Result of Assessment	Feedbacks from the Farmers
3	Wheat	Management of Termite in wheat crop (GW-496)	T1: Farmer's practice	5	Yield (q/ha.)	32.00	32900	2.64	The assessed technology T2 had recorded highest yield & BC ratio and gave 15.63 % higher yield over T1 with higher net returns (as compared to farmer practices.	With the use of recommended practices for Management of termite more yield and less infestation of termite was found
					Infestation %					
			T2: Soil application of Neem cake 1 ton/ ha + Seed treatment of Fipronil 5 SC 500 m/ 100 kg seed		Yield (q/ha.)	37.00	38900	2.79		
					Infestation %					

(B) Animal Science

Sr. No.	Crop/ Enterprise	Title of OFT	Technology Assessed	No. of Trials	ADG (gm/day)	Net return in ₹/ Unit	B:C Ratio	Result of Assessment	Feedbacks from the Farmers
1	Cow	Assessment of milk replacer feeding in calves	Farmers' practices (No use of supplemental feeding)	10	185	-	-	67.56% more average daily gain in body weight was observed	Progressive livestock farmers are convinced to use milk replacer to their calf due to improvement in body weight gain.
			Milk Replacer@ 1:10 L / Calf / Day (100gm /L Water)		310	-	-		

(iii) Production of seeds by products

The details of seeds produced by KVKs of AAU during 2020-21 are given in Table 5.13.

Table 5.13 Production of seeds by the KVKs of AAU during 2020-21

Name of KVK	Crop	Name of the Variety	Quantity of Seed (q)	Value (₹)
KVK, Arnej (Ahmedabad)	Wheat	GADW 3	87.20	344440
	Gram	GJG 3	52.60	315600
	Cumin	GC 4	03.60	104400
	Dilseed	GAD 1	03.20	25600
KVK, Dahod	Wheat	GW 451 (Certified)	22.00	76669
	Soybean	NRC 37 (Breeder)	15.00	174375
	Soybean	NRC 37 (Foundation)	27.00	216000
	Soybean	NRC 37 (Certified)	11.00	66000
	Chickpea	GJG 5 (Foundation)	17.50	143500
	Sun hemp	Local	01.10	6600
KVK, Deavataj (Anand)	Paddy	GR 7	46.90	148595
	Paddy	Gurjari	64.50	192141
	Wheat	GW 451	54.70	158055
TRTC Devgadhbaria	Soybean	NRC 37	500.00	58125
	Maize fodder	African Tall	430.00	21500
	Wheat	GW 451	850.00	29963
	Gram	JG 14	1500.00	90000
	Maize	ICPF 21 (Pop corn female)	05.00	1000

(iv) Impact of KVKs of AAU

The details of the impact of KVKs of AAU during 2020-21 are given in Table 5.14.

Table 5.14 Impact of KVKs of AAU on specific technology/skill transferred during 2020-21

Sr. No.	Name of specific Technology/ Skill Transferred	No. of Participants	Production Increase (%)	Change in Income (₹/ha)	
				Check	Demo
(A) KVK, Arnej (Ahmedabad)					
Cereals					
1	Use of Thiourea 500 ppm in wheat GADW 3	10	12.00	24100	26800
2	Use of leaf colour Chart in paddy	10	12.34	48300	67400
Pulses					
3	Seed treatment in gram	95	14.41	24700	27200
4	Use of Fertilizer and Biofertilizer in gram	95	13.04	24200	28100

Sr. No.	Name of specific Technology/ Skill Transferred	No. of Participants	Production Increase (%)	Change in Income (₹/ha)	
				Check	Demo
5	Use of Bio-agent in gram	95	16.53	25500	27600
Oil Seed					
6	Wilt resistant variety, castor GAC 11	35	24.62	63400	81200
Horticultural crops					
7	Introduction of improved variety GAVC 112 (Chilli)	10	12.52	115300	133200
8	Artificial defoliation (Chilli)	10	7.49	110000	113500
9	Azoxistrobin 23SC 0.23% 10 ml/lit water (Cumin)	10	8.06	46400	48900
10	Introduction of improved variety GC 4 (Cumin)	10	8.20	45250	49675
11	Introduction of new crop and variety GAD 1 (Dilseed)	10	18.57	43245	45325
12	Introduction of new variety GAO 5 (Okra)	10	14.45	104050	125000
13	Introduction of new variety GT 5 (Tomato)	10	5.18	188750	208000
14	For Jassid Thiamithoxam 25WG (Okra)	10	11.49	105350	121400
Commercial crop					
15	Introduction of improved variety GADC 2 (Desi Cotton)	10	11.49	67500	76850
Cattle					
16	Calf Starter	20	29.97% Gain in weight	16.44(274gm ADG)	13.02(217gm ADG)
17	Milk Replacer	20	26.26% Gain in Weight	7.97(177gm ADG)	6.75(150 gm ADG)
18	COFS29	05	18.07% Gain in Weight	15 ton (04 Cutting)	3.5 ton (01 Cutting)
19	Bypass Protein	20	4.83 % Fat Increased	45.27 (503 gm ADG	34.83 (387 gm ADG)
20	Bypass Fat	20	2.8 % Milk Increased	9.15 L/Day 6.5% Fat	8.90 L/Day 6.2% Fat
Agricultural Enginnering					
21	Paddy Transplanter-Manual	10	457 Man hour/q 105 Cost of operation, ₹/q	57 3990	328 8200

Sr. No.	Name of specific Technology/ Skill Transferred	No. of Participants	Production Increase (%)	Change in Income (₹/ha)	
				Check	Demo
22	Electric Operated Paddy Thresher	*5*	219.35 Threshing Capacity (kg/h)	189	65
23	Women Empowerment	5	Increased shelf-life results cost benefit and saving of resources i.e., time and energy for milking activity helped to improve health		
(B) KVK, Dahod					
Cereals					
1	Varietal replacement- Maize	50	20.34	7966	19457
2	Varietal replacement -Wheat	25	18.51	25252	31381
Pulses					
3	Varietal replacement -Gram	50	33.17	15048	25581
4	Varietal replacement – Pigeon pea	25	26.50	29173	40533
5	Varietal replacement -Green gram	25	20.72	17645	27638
Oil Seed					
6	Varietal replacement –Soybean	50	14.21	29890	36651
Vegetables					
7	Varietal replacement –Okra	50	16.73	121680	146990
8	Varietal replacement – Brinjal	20	19.66	178680	228495
9	Varietal replacement –Tomato	20	25.78	203060	276220
10	Varietal replacement –Chilli	20	15.75	99230	124460
Cattle					
11	Disease management	50	18.06	3890	5660
12	Fertility Management	20	65 % success rate		
Poultry					
13	Poultry birds- Breed replacement :Kadaknath	20	3.30	2550	5250
(C) KVK, Devataj (Anand)					
1	Varietal Introduction GAR 13	1700	76	18600	25200
2	Varietal Introduction GW 451	330	82	8900	13600
3	Production technology of Mung bean	420	72	36000	49700
4	Use of bio fertilizers	145	81	48000	53200
5	Use of mineral mixture	500	81	4700	6300
6	Composite fish culture in village ponds	160	63	41500	75100

NB: The data were based on the actual study, questionnaire/group discussion, etc. with ex-participants.

1. Training Programmes for Extension Functionaries

(a) Extension Education Institute

The Extension Education Institute, Anand caters the extension training needs of middle-level functionaries of various line departments of Western Zone States viz; Gujarat, Rajasthan, Madhya Pradesh, Chhattisgarh, Maharashtra, Goa and UTs of Diu, Daman and Dadra Nagar Haveli. The aim is to improve their job performance, wherever, they are working in different capacities. The Management Committee of EEI approves action plan and reviews the progress of EEI activities. Total 66 training courses were conducted for 2089 trainees by the EEI, Anand during the year as shown in Table 5.15.

Table 5.15 : Training Programmes Conducted by Extension Education Institute during the Year 2020-21 through online mode

Sr. No.	Type of Courses/Workshops	No. of Courses	No. of Participants
1	On-Campus	43	1373
2	Peripatetic (Off-Campus)	23	716
	Total	**66**	**2089**

(b) Training & Visit Scheme

The Anand Agricultural University has taken up the task of training for the extension personnel of the Department of Agriculture through the Training and Visit Scheme at Anand. The details about bi-monthly workshops and pre-seasonal training programmes organized for the extension personnel of the Department of Agriculture and the number of SMSs/AEOs attended the programmes during 2020-21 is given in Table 5.16.

Table 5.16 Training Programmes Organized by T&V during the Year 2020-21 through online mode

Sr. No.	Type of Programmes	No. of Training Programmes	No. of Extension Personel
1	Bi-Monthly Workshops	04	167
2	Pre-seasonal Trainings	02	112

4. Training Programmes for Farmers / Farm Women / Farm Youths/Extension Workers and Others

Training is essential to increase the efficiency of the farmers, farm women, farm youths and extension workers. On-campus, as well as off-campus training programmes are organized based on the needs and interests of the stakeholders through the Front Line Transfer of Technology (TOT) Centres. Total 290 (On-campus-172 and Off-campus-118) training programmes were organized by extension education centers of AAU for 11340 beneficiary farmers and extension workers during 2020-21. The center wise details of the training programmes and their beneficiaries are given in Table 5.17 and 5.18.

Table 5.17 On-Campus Training Programmes Organized by TOT Centers during 2020-21 through online mode

Sr. No.	Name of TOT Center	No. of Training Programmes	Farmers	Farm Women	Extension Workers/ Other	Total
1	SSK, Anand	04	73	-	-	73
2	KVK, Arnej (Dist.Ahmedabad)	54	1276	-	-	1276
3	KVK, Dahod	41	2827	1573	423	4823
4	KVK, Devataj (Dist.Anand)	03	113	01	-	114
5	TRTC, Devgadhbaria	08	193	64	00	157
6	TFWTC, Devgadhbaria	10	32	260	00	293
7	DVK, Vejalpur	01	39	-	-	39
8	PVK, Limkheda	15	162	387	00	549
9	TC, Jabugam	10	300	-	-	300
10	ATIC, Anand	01	255	44	48	347
11	APC, Dahod	02	10	-	-	10
12	NARP Extension Scheme MMRS, Godhra	01	55	-	-	55
		03	165	-	-	165
13	School of Baking, Anand	19	67	-	-	67
Total		**172**	**5567**	**2329**	**471**	**8195**

Table 5.18 Off-Campus Training Programmes Organized by TOT Centers during 2020-21 through online mode

Sr. No.	Name of TOT Center	No. of Training Programmes	Farmers	Farm Women	Extension Workers/ Other	Total
1	KVK, Arnej (Dist.Ahmedabad)	29	745	-	-	745
2	KVK, Dahod	50	897	563		1460
3	KVK, Devataj (Dist.Anand)	01	16	-	-	16
4	TRTC, Devgadhbaria	03	20	45	00	65
5	TFWTC, Devgadhbaria	04	22	60	00	82
6	DVK, Vejalpur	12	437	131	-	568
7	PVK, Limkheda	04	19	50	00	69
8	APC, Dahod	15	140	-	-	140
Total		**118**	**2296**	**849**	**00**	**3145**

5. Extension Education Activities

The KVKs, TOT centers as well as the Advisory Service Centers and other Centers had also planned and organized extension education activities. More than 47,223 beneficiary farmers were benefited through various extension education activities conducted by various extension, education and research centers of AAU whereas, 2,20,033 beneficiary farmers were benefitted by providing mobile advisory services (Voice and Text both) through KVKs of AAU during 2020-21. The details of the extension education activities organized under various centers/schemes are given in Tables 5.19 to 5.20.

Table 5.19 Extension Education Activities carried out by KVKs of AAU during 2020-21

Activities	No. of Programmemes	No. of Farmers	No. of Extension Personnel
Advisory services	177	16979	44
Diagnostic visits	232	542	16
Field days	16	351	6
Group discussions	48	810	16
Kisan ghosthis	11	956	26
Film shows	74	2002	202
Exhibition	2	146	9
Lectures delivered	88	17748	527
Method demonstrations	53	1006	20
Celebration of important days	8	316	16
Special day celebration	2	114	2
Farmers visit the KVK	370	2187	70
Filed visit	192	807	37
Telephonic/Postal guidance	1485	1426	59
Farmers meeting	24	446	14
Farmer scientist interaction	11	146	89
Educational tour	1	17	2
Cattle camp/Animal health/Vaccination camp	2	66	3

Table 5.20 Mobile Advisory Services provided by KVKs of AAU during 2020-21

Name of KVK	Message Type	Type of Messages					
		Crop	Live-stock	Marketing	Awareness	Other Enterprise	Total Benefi-ciaries
Arnej (Dist.Ahmedabad)	Text only	32	21	03	16	28	**11520**
Dahod	Text only	02	00	01	01	00	38571
	WhatsApp	86	23	06	64	25	1873
Devataj (Dist.Anand)	Text only	01	00	03	05	02	168069
Total		**121**	**44**	**13**	**86**	**55**	**220033**

Table 5.21 : Extension Education Activities Carried Out in Tribal Area by TOT Centers during 2020-21

Sr. No.	Activities	TTF Dahod	APC Dahod	TRTC Devgadhbaria	TFWTC Devgadhbaria	PVK Limkheda	TOT Godhra	TC Jabugam
1	***Khedut shibirs/ Pashupalan shibirs/ Krushi gosthis*/Group discussion**	-	2 (20)	-	-	01 (262)	03 (165)	12 (384)
2	**Guidance to farmers**	206	318	10	11	11	06 (153)	136 (491)
3	**Films/Video shows**	-	-	-	-	-	01 (50)	05 (150)
4	**Guidance through letters/ Telephone/SMS**	245	443	304	378	456	283	196 (375)
5	**Field visit/ Crop diagnostic services**	-	9 (86)	1 (10)	2 (12)	-	13 (13)	-
6	**Lectures delivered for new Technology**	-	-	6 (133)	6 (183)	16 (504)	08 (1485)	-
7	**Pressnote**	-	-	01	01	-	-	-
8	**Crop Demo/Int.Demo**	-	-	12	-	42	-	-

Note: Figures in parentheses indicate numbers of participants/beneficiaries

Table 5.22 Extension Education Activities Carried Out by TOT Centers during 2020-21

Sr. No.	Activities	SSK Anand	ATIC Anand	NIRP Khandha	PRS Dabhoi	PUB Anand	TOT Arnej	FTTC Sansoli
1	**Trainings/*Khedut shibirs/ Pashupalan shibirs/Krushi gosthis***	-	01 (12)	11 (252)	10 (310)	-	-	19 (743)
2	**Group discussions**	54 (242)	03 (14)	-	-	-	15 (150)	03 (144)
3	**Guidance to farmers**	3906	438	-	226	2723	380	211
4	**Films/Video/TV/Radio shows**	33 (942)	-	-	-	-	-	01 (Mass)
5	**Guidance through letters/ Telephone/SMS**	873	376	-	-	2533	850	296
6	**Field day**	-	-	08 (136)	05 (105)	-	-	-
7	**Field visit/ Crop diagnostic services**	03 (03)	-	-	-	-	25 (100)	20 (60)
8	**Newspaper coverage/Press Note**	01	-	-	03	79	-	-
9	**Lectures delivered for new Technology**	23 (836)	-	-	-	-	06 (123)	-
10	**Escorting the visitors**	2989	-	-		437	118	
11	**Crop Demo / Interactive Demo**	-	-	-	15	-	05	153
12	**Success Story**	18	-	-		-	-	01
13	***Khedut din***	-	-	-	-	-	-	02 (200)

Note: Figures in parentheses indicate numbers of participants/beneficiaries

6. Publications

(i) Farm Magazine

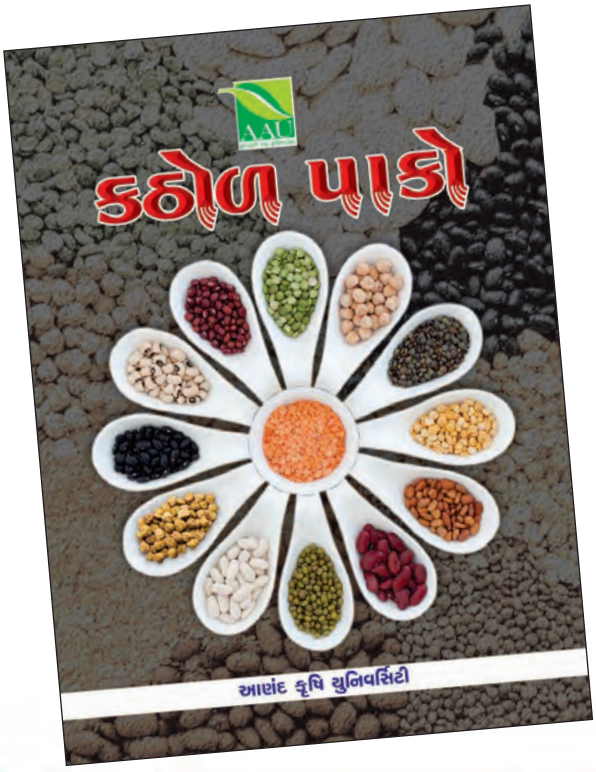
The publication unit publishes the monthly farm magazine *'Krushigovidya'* regularly since May 1948. The main objective of this farm magazine is to disseminate and to popularise improved and scientific methods of agricultural and allied subjects in a very digestible and easily understandable manner for the farming community. A total 1,09,300 copies of krushigovidya distributed during the year 2020-21.

(ii) AAU Newsletter

The Directorate of Extension Education publishes a quarterly 'AAU Newsletter' regularly. The AAU newsletter gives research highlights, technical events/news, extension activities and noteworthy work done by the scientists of AAU.

(iii) Agricultural Literature

The books, booklets, folders, brochures, reports, directory, worksheets, training and practical manuals, etc. on various subjects were published by different extension, education and research centers of AAU during the year. More than, 10,500 copies of books, 4500 copies of booklets, 37,050 copies of folders, 97,300 copies of magazines and more than 5600 copies of other literature were published and distributed to beneficiaries by AAU in all, list of 62 publications are given in Annexure 5.2



Total 1,11,300 copies of different farm literature were distributed by publication unit to farming and scientific community during 2020-21.

(iv) Video Films (DVD)

AAU prepared eight video films. The details of video films (DVD) are given in Annexure 5.3

7. Best Article Award

The AAU gives the Uttam Lekh Awards (Best Articles Awards) for authors whose articles publishes in *Krushigovidya* farm magazine since 2004-05. During this year, Awards were given to 35 authors for their published 13 articles in 12 issues of the 72th volume of *Krushigovidya* farm magazine. Among them, 39 AAU scientists (55.07 %) received the *Uttam Lekh Awards*. The detail is given in Annexure 5.4

8. Mass Media

(i) Radio Talks

During the year, 8 scientists of AAU has delivered 10 radio talks on different topics related to agriculture, horticulture, animal husbandry on All India Radio. The details of radio talks are given in Annexure 5.5

(ii) TV Programmes

Total 16 TV programmes on different aspects covering agriculture, horticulture, animal husbandry, home science etc. were telecast through Doordarshan Kendra, Ahmedabad. The details of TV programmes are given in Annexure 5.6.

9. Coordination with line Departments

The AAU has planned and organized various extension education programmes/activities in close coordination with line departments of the state. The structural linkages exist under Training and Visit scheme by way of constituting technical committees at the district, zonal and state levels.

The functional linkages also exist under the T&V Scheme through bi-monthly workshops, pre-seasonal trainings, diagnostic team and state level crop seminars/ workshops etc. The coordination exists in a follow-up programme as well as planning of farm trials. In AGRESCO, the officers of the line departments are the members and they generously contribute to the formulation of technical programmes as well as in finalizing recommendations for the farmers**.**

The interface of AAU scientists with functionaries of the departments of the state, NGOs and other agencies organized at state as well as at campus levels during the year of the report.

The agricultural programmes of All India Radio, as well as *Doordarshan*, were finalized by coordinated efforts. For transfer of technologies to the farmers at large, farmers day, *Krushi Mela*, farmer-scientist interactions, group discussions etc. were organized through collaborative efforts.

Annexure 5.1

Extension Education Schemes

Sr. No.	Scheme	Center
A	**Plan Schemes**	
1	Training Programmeme on Food Processing Technology	Anand
2	Training Programmeme on Organic Farming	
3	Training Programmeme on Weed Management	
4	Training Programmeme on Integrated Pest Management	
5	Training Programmeme on Seed Production	
6	Training Programmeme on Medicinal and Aromatic Plants	
7	Training in Gardening, Landscaping and Nursery Management	
8	Training in Baking Technology	
9	Training in Commercial Poultry Farming / Advanced Training in Commercial Poultry Technology	
10	Strengthening of Directorate of Extension Education	
11	Agricultural Technology Information Centre	
12	Upgrading of Existing *Sardar Smruti Kendra*	
13	Establishment of Technological Resource Centre and Educational Museum	
14	Establishment of Transfer of Technology Centre	Arnej
15	Establishment of Agri Poly Clinic for Tribal Farmers	Dahod
16	Strengthening of Demonstration cum Training Centre for Fish Culture	Devataj
17	Establishment of Tribal Farm Women Training Centre	Devgadh Baria
18	Transfer of Technology Centre	Godhra
19	Training Centre	Jabugam
20	Pashu Vigyan Kendra	Limkheda
21	Farm Technology Training Centre	Nenpur
22	Dairy Vigyan Kendra	Vejalpur
B	**Non-Plan Schemes**	
1	Directorate of Extension Education	Anand
2	Publication Scheme	
3	Establishment of *Sardar Smruti Kendra* Museum	
4	Farm Advisory Scheme	
6	Tribal Training Centre	Dahod
7	Tribal Research cum Training Centre	Devgadh Baria
C	**ICAR Schemes**	
1	Overseeing of KVKs through Directorate of Extension Education	Anand
2	*Krushi Vigyan Kendra*	Arnej
3	*Krushi Vigyan Kendra*	Dahod
4	*Krushi Vigyan Kendra*	Devataj
D	**Other Agency Schemes**	
1	*Krushi Mahotsav*	Anand
2	Training and Visit Scheme (Plan)	
3	NARP Extension Scheme	Arnej
4	NARP Extension Scheme	Godhra
5	*Krushi Library*	Anand

Annexure 5.2

Publication of Agricultural Literature during 2020-21

Sr. No.	Name of Publication	Publication Series No. /ISBN/ ISSN No.
	Books	
1	*Sajiv khetima sankalit vyavasthapan*	EDU-1:31:2020:1000
2	*Vishwa vyapar sangathan paripekshyma shakbhaji pakoni nikashshil kheti*	EDU-1:34:2020:1000
3	*Nindan vyavasthapan*	EXT-1:27:2021:500
4	Vermicompost	EXT-5:37:2020:2000
5	*Jaivik khatar*	EXT-5:39:2020:2000
6	*Kathol pako*	EXT-5:40:2020:2000
7	*Krushi Pakoma processing ane mulyavardhan*	EXT-5:41:2020:2000
	Booklets	
8	*Pashupalan sambandhit – 19 ni samany jankari*	EDU-3:17:2020:1000
9	A monogram on management of Injuerd birds	EDU-3:18:2020:1000
10	Papaya Processing Products and Technology	EDU-6:39:2020:200
11	Qualititative For Qetetion of common	RES-1:15:2020:500
12	A blue cross for animal health management booklet	RES-20:1:2021:100
13	*Bij masala pakoni vaigyanik kheti paddhati*	RES-47:7:2021:500
14	17th Annual Convocation : Welcome Address	GEN-1:31:2021:300
15	17th Annual Convocation : Convocation Speech	GEN-1:32:2021:300
16	17th Annual Convocation : Programme and Procedure	GEN-1:33:2021:300
17	17th Annual Convocation : *Atithi visheshnu sambodhan*	GEN-1:34:2021:300
	Practical Manuals	
18	Sprinkler and Micro Irrigation Systems Practical Mannual	EDU-4:36:2020:200
19	Agricultural Structures and Environmental Control (PFE-3.5.3)	EDU-4:49:2020:100
20	Post Harvest Engineering of Cereals, Pulses and Oil seeds (PFE- 3.5.4)	EDU-4:50:2020:100
21	Post Harvest Engineering of Horticultural Crops (PFE-3.6.3)	EDU-4:51:2020:100
22	Dairy and Food Engineering (PFE-3.6.7)	EDU-4:52:2020:100
23	Practical Mannual of FPT 124 Basic	EDU-6:40:2020:200
24	Practical Mannual of FPT 361 Basic	EDU-6:41:2020:200
	Training Manuals	
25	*Bagayati pakoma jivatonu sankalit vyavasthapan*	EDU-1:33:2020:1000
26	*Marimashala shakbhajipako: Talim samput*	RES-5:9:2021:100
	Modules	
27	*Khetima havaman ane jaminani bhumika*	EDU-8:30:2020:50

Sr. No.	Name of Publication	Publication Series No. /ISBN/ ISSN No.
28	*Pak utpadan*	EDU-8:31:2020:50
29	*Bij utpadan*	EDU-8:32:2020:50
30	*Sankalit poshan vyavasthapan*	EDU-8:33:2020:50
31	*Piyat vyavasthapan*	EDU-8:34:2020:50
32	*Paksanrakshan*	EDU-8:35:2020:50
33	*Farm yantrikaran ane kapni pachhini tantrikatao*	EDU-8:36:2020:50
34	*Vistaran vyavastha ane vyaktitva vikas*	EDU-8:37:2020:50
	Folders	
35	*Saragavani jivato ane tenu sankalit vyvasthaapan*	EDU-1:42:2021:4000
36	*Departmet of Entomology at a Glance*	EDU-1:36:2020:500
37	Updraft Throat Type Biomass Gasifier	EDU-4 :38:2020:500
38	Biomass Combustor Based Drying System (English)	EDU-4:39:2020:500
39	Biomass Combustor Based Drying System (Gujarati)	EDU-4:40:2020:500
40	*Madhmakhi uchher mateni prathmik jankari*	EDU-1:32:2020:1000
41	*Shakabhaji pakoma krumithi thatu nukshan tatha tenu vyavsthapan*	EDU-1:35:2020:1000
42	Department of Agricultural Entomology at Glance	EDU-1:36:2020:500
43	*Gujaratna mukhya kheti pakonu arthkaran*	EDU-1:37:2020:500
44	*Makaina pakama sankalit jivat vyavasthapan*	EDU-1:38:2020:4000
45	Growth and Prospects of Export of Dairy Products from India	EDU-1:39:2020:50
46	*Sitafalma chikta (Milibug) nu sankalit vyavasthapan*	EDU-:41:2020:5000
47	*Saragvani jivato ane tenu sankalit vyavasthapan*	EDU-1:42:2021:4000
48	*Bagayati Pakoma falmakhinu sankalit vyavasthapan*	EDU-1:43:2021:4000
49	*Feromentrep sankalit jivat vyavasthapan no agatyano ghatak*	EDU-1:44:2021:4000
50	*Gayo-Bhensoma thato ganthadar tvachano rog*	EDU-3:15:2020:1000
51	Estrus Induction and ovulation Synchronization infertile animals	EDU-3:14:2020:1000
52	*Vyandhatv-vasukel dudhala pashuoma vetara and mochananu samkalinikaran*	EDU-3:15:2020:1000
53	Novel Peripartum Nutritional postpartum Technologies To Improve fertility	EDU-3:16:2020:1000
54	Biomass Combustor Based Drying System	EDU-4:39:2020:500
55	*Biomass combust aadharit sukavani yantra*	EDU-4:40:2020:500
56	*Khet ojaro ane yantro sambandhit khedut upyogi bhalamano*	EDU-4:41:2020:4000
57	Updraft Throat Type Biomass gasifier	EDU-4:38:2020:500
58	*Ghauma nindan vyavasthapan*	RES-8:3:2021:10,000
59	*Gajarghasnu sankalit vyavasthapan*	RES-8:4:2021:10,000
60	*Unalu magfalima nindan vyavasthapan*	RES-8:5:2021:10,000

Sr. No.	Name of Publication	Publication Series No. /ISBN/ ISSN No.
61	*Deshi kapasani navi jato ane kheti paddhati*	RES-47:6:2021:500
62	Css Mission forintegrated Devlopment of Horticulture	EXT-21:4:2021:1000
	Profile	
63	AAU Agri Business Incubutor Profile	EDU-6:37:2020:300
	Magazine	
64	*Krushigovidhya Magazine (Monthly)*	Year:72-73:No.12-1,2,3:Vol.864-867:12000 Year:73:No.04:Vol.868:11500 Year:73:No.05:Vol.869:12800 Year:73:No.06:Vol.870:13000 Year:73:No.07:Vol.871:12000 Year:73:No.08:Vol.872:12000 Year:73:No.09:Vol.873:12000 Year:73:No.10:Vol.874:12000 Year:73:No.11:Vol.875:12000
	Newsletter	
65	AAU Newsletter (Quarterly)	Vol.16 & 17 No.4 & 1:1000 Vol.17 No.2:1000 Vol.17 No.3:1000
66	AAU Agri Business Incubutor News Letter	EDU-6:38:2020:200
	Bulletin	
67	A Resaarch Bulletin on Enducrinology Buffalo	RES-20:2:2021:200
	Reports	
68	Annual Progrss Report 2019-20	EDU-4:37:2020:200
69	16th Annual Report of AAU	GEN-1:30:2020:300

Annexure 5.3

Details of Video Film (DVD) prepared during 2020-21

Sr. No.	Topic/Subject	No. of Copies
1	*Krushi Sansodhan Kendra – Sansoli ek parichay*	10
2	*Divela G. C. H. – 10 Jatni vaigyanik kheti paddhati*	10
3	*Swachcha ane swasth dudh utpadan*	30
4	*Pashuoma jivanu ane vishanuthi thata rogo ane tene atkavana upayo*	30
5	*Pashupalan ma vyandhatva nivaran*	30
6	*Ghascharanu utpadan ane teni jalavani*	30
7	*Ghargaththu vastuona upyog thaki pashuona svasthyni jalavani*	30
8	*Adivasi mahila khedut talim kendranee siddhio*	30

Annexure 5.4

Details of AAU Scientist Receiving Best Article Award

Sr. No.	Name of Scientist	Address	Year	Issue No.	Month-Year	Page No.
1	Minaxi R. Prajapati	Polytechnic in Food Science and Home Economics, AAU, Anand	72	1	May – 2019	31-32
2	Dr. K. B. Kamaliya	Polytechnic in Food Science and Home Economics, AAU, Anand	72	1	May – 2019	31-32
3	Dr. D. H. Patel	Polytechnic in Food Science and Home Economics, AAU, Anand	72	1	May – 2019	31-32
4	Er. Kamlesh R. Jethva	Processing and Food Engineering Dept., CAET, AAU, Godhra	72	2	June – 2019	23-26
5	Dr. Sanjay P. Cholera	Processing and Food Engineering Dept., CAET, AAU, Godhra	72	2	June – 2019	23-26
6	Dr. V. I. Joshi	Main Vegetable Research Station, AAU, Anand	72	3	July - 2019	8-13
8	Shri Vipul Patel	Main Vegetable Research Station, AAU, Anand	72	3	July - 2019	8-13
11	Dr. R. R. Acharya	Main Vegetable Research Station, AAU, Anand	72	3	July - 2019	8-13
12	Dr. R. R. Gajera	College of Horticulture, AAU, Anand	72	5	Sep. – 2019	22-25
13	Dr. H. C. Parmar	College of Agriculture, AAU, Jabugam	72	5	Sep. – 2019	5-7
14	Dr. Vinod B. Mor	College of Agriculture, AAU, Jabugam	72	5	Sep. – 2019	5-7
17	Dr. M. V. Patel	College of Agriculture, AAU, Jabugam	72	5	Sep. – 2019	5-7
18	Dr. K. B. Kathiria	Vice-Chancellor, VC Office, AAU, Anand	72	5	Sep. – 2019	5-7
19	Dr. R. M. Rajpura	Animal Science Department, BACA, AAU, Anand	72	6	Oct.- 2019	25-27
20	Dr. M. M. Trivedi	Animal Science Department, BACA, AAU, Anand	72	6	Oct.- 2019	25-27

Sr. No.	Name of Scientist	Address	Year	Issue No.	Month-Year	Page No.
21	Dr. F. P. Savaliya	Poultry Complex AAU, Anand	72	6	Oct.- 2019	25-27
22	Dr. J. S. Doshi	Regional Research Station, AAU, Anand	72	7	Nov. - 2019	34-47
23	Shri V. B. Bhalodiya	Dept. of Agril. Engg., BACA, AAU, Anand	72	7	Nov. - 2019	34-47
24	Shri C. S. Baladhiya	Agricultural Engineering Dept. BACA AAU, Anand	72	7	Nov. - 2019	34-47
25	Dr. D. D. Parekh	College of Horticulture, AAU, Anand	72	7	Nov. - 2019	22-24
26	Dr. Amita B. Parmar	College of Horticulture, AAU, Anand	72	7	Nov. - 2019	22-24
27	Dr. R. R. Gajera	Post Harvest Technology Department, College of Horticulture, AAU, Anand	72	7	Nov. – 2019	38-41
28	Dr. D. D. Chaudhary	AICRP on Weed Management, BACA, AAU, Anand	72	7	Nov. – 2019	31-33
29	Dr. V. J. Patel	Polytechnic in Agriculture, AAU, Anand	72	7	Nov. – 2019	31-33
30	Dr. B. D. Patel	AICRP on Weed Management, BACA, AAU, Anand	72	7	Nov. – 2019	31-33
31	Dr. G. C. Mandli	Veterinary College, AAU, Anand	72	9	Jan. – 2020	5-10
32	Shri P. C. Patel	Office of Directorate of Extension Education, AAU, Anand	72	11	March - 2020	42-45
33	Shri S. A. Sipai	Office of Directorate of Extension Education, AAU, Anand	72	11	March - 2020	42-45
34	Dr. Gautam R. Patel	Registrar Office, AAU, Anand	72	11	March - 2020	11-13
35	Dr. Bindu M. Christian	Agricultural Extension and Communication Department, Polytechnic in Agriculture, AAU, Vaso	72	11	March - 2020	11-13

Annexure 5.5

Radio Talks Delivered during 2020-21

Sr. No.	Name of Scientist	Topic	Date
1	Dr. A. Y. Makani	Advantages of Drip Irrigation Farming System	05/03/2020
2	Er. Khyati Vyas	*Khet talavadi nu mahatva*	22/07/2020
3	Dr. K. C. Patel	Kharif pakoma gandhak ane shukshma tatvonu mahtva	31/07/2020
4	Dr. Ekta Pandya	Integrated pest control in stored grains	28/01/2021
5	Er. Khyati Vyas	*Chhat dvara varsadi pani no sangrah*	29/01/2021
6	Dr. A. Y. Makani	Integrated disease management in winter crops	04/02/2021
7	Er. J. J. Chavda	Importance and Utilization of Biogas	23/02/2021
8	Shri. J. M. Patel	Disease and vaccination in animals	18/03/2021
9	Dr. D. K. Vyas	Green house and its Maintenance	25/03/2021
10	Er. Kamlesh R. Jethva	*Fal pako ma Packaging ane tenu Mahatav*	26/03/2021

Annexure 5.6

Television Programmes Telecasted during 2020-21

Sr. No.	Name of Scientist	Topic	Date
1	Dr. K. V. Patel	*Tuver ni jato ane kheti paddhati*	21/04/2020
2	Dr. D. B. Sisodiya	*Madhy Gujaratna chomasu pakoma sankalit jivat vyavasthapan*	13/07/2020
3	Dr. K. C. Patel	*Kharif Pakoma gandhak ane sukshma tatvonu mahatva*	05/08/2020
4	Dr. M. B. Patel	*Popcorn ane sweetcorn makaini kheti paddhati*	18/08/2020
5	Dr. R. K. Thumar & Dr. R. G. Parmar	*Kharif Pakoma sankalit rog-jivat vyavasthapan*	21/08/2020
6	Dr. R. R. Gajera	*Krushi kshetrani urja ane teno upyog*	26/08/2020
7	Dr. K. K. Hadiya & Dr. R. J. Modi	*Pashuoma varshik viyana ni agatyata ane faydao*	18/09/2020
8	Dr. R. R. Acharya	*Shakbhajini judi judi jato ane teni lakshaniktao*	14/10/2020
9	Dr. D. B. Sisodiya	*Makaini tapkavali lashkari iyal ane tenu niyantran*	11/11/2020
10	Dr. R. K. Thumar & Dr. D. B. Sisodiya	*Shiyalu pakoma sankalit jivat niyantran*	27/11/2020
11	Dr. D. D. Chudhary	*Ravipakoma nindannashakono upayog*	02/12/2020

Sr. No.	Name of Scientist	Topic	Date
12	Dr. S. K. Raval & Dr. J. B. Nayak	*Pashupalan sambandhit rogoni jankari ane teni agatyata*	11/12/2020
13	Dr. M. B. Viradiya	*Kheti pakoma poshan vyavasthapan*	29//01/2021
14	Dr. R. K. Thumar	*Geenhouse ma sankalit jivat vyavasthapan*	12/02/2021
15	Dr. R. J. Modi	*Viyan pahela ane pachhinu gayo/bhensonu vyavasthapan*	23/03/2021
16	Dr. R. R. Acharya	*Unalu shakbhajini vaigyanik kheti*	30/03/2021

Glimpse of Extension Activities





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