Achievements

1. Megaseed

Seed production under ICAR Seed Project

Particulars	Seed produce during last five year (In quintals)						
Particulars	2017-18	2018-19	2019-20	2020-21	2021-22		
Breeder Seed	156	225.6	199.91	218.92	181.3		
Foundation Seed	402	552.8	447.54	511.51	263.77		
Certified Seed	2129	2662.72	1603.73	1299.03	1414.05		
TFL Seed	1813	1484.81	1029.15	1431.78	1892.11		
Total	4500	4925.93	3280.28	3461.24	3751.23		
Planting Material	1433.96	2350	1550	1680	1200		
(Sugarcane)	1455.90	2330	1550	1000	1200		
Sugarcane tissue culture plantlets							
+	95786	67000	135550	55100	1105		
Single Eye Bud (Nos.)							
Banana tissue culture plantlets (Nos.)	10858	17000	25000	4750	-		
Fruit crops (Nos.)	499744	333900	254500	-	-		
Farmer Training	6	7	3	-	-		
Khedut Din	-	1	1	-	-		

4 Seed production Under MIDH

Sr. No.	Details of measures	2017-18	2018-19	2019-20	2020-21	2021-22				
1. Pro	oduction of quality planting materia	ls.								
(I)	Turmeric rhizomes (Qty. in tones)	25	31.42	25.25	24.9	29.6				
(II)	Garlic seed (Qty. in tones)	2	1.3	0.9	-	-				
(III)	Black pepper cuttings (Nos.)	2500	2373	3969	3969	2500				
(IV)	Ginger (Qty. in tones)	1	-	-	-	-				
2. Tee	chnology Dissemination Through FI	D Organic Fa	rming							
(I)	Turmeric	1	2	-	-	-				
3. Tra	ansfer of Technology Programmer (Nos.)								
(I)	Farmers Training Programme	3	3	2	1	2				
4. Status of Skill Development Trailing programme										
(I)	Skill development training (Florist)	-	1	-	-	-				
(II)	Skill development training (Protected cultivation)	-	1	-	-	-				

	Z. Pulses						
Sr. No.	Crop	Variety	Year of release	Yield kg/ha	Characteristics		
Varie	eties Devel	oped					
1		GT-1	1992	4000 - 5000 kg/ha (green pod)	Non determinate green poded variety having 5-6 peas per pod. Plant height: 170-190 cms. Plant type: bushy, Non Determinate type. Peas and pod color: green, pods are lengthy with out streaks contains 5-6 peas. (Developed at NARP, NAU, Bharuch)		
2		GT-102		1500	Medium duration variety, White bold seeded, Moderately resistant to SMD, Suitable for <i>rabi</i> cultivation		
3	Pigeon pea	GNP-2	2016	3400 (green pod) and 1200 (grain)	First dual purpose (grain/ vegetable) variety in the State, Semi spread plant type with dark green foliage. Green pod with prominent constriction, Seed shape is globular which is more preferred by milling industry, consumers and farmers. (Developed at NARP, NAU, Bharuch)		
4		GT-104	2018	1800- 2000	Variety matures within 160-170 days (medium group) with semi spreading in nature, having red flower colour, long pod, 5-7 seeds per pod and cream seed colour. It has high yield potential and resistant against SMD. Recommended for <i>kharif</i> season in Gujarat.		
5	GT-10		2019	1800- 1900	Early duration flowering and maturity. Spreading plant type. Straight green pod with 3-5 seeds per pod. Cream (white) and medium seed size (9.5 gm). Resistant to sterility mosaic disease.		
5	GBM-1		2008	930	Medium tall, spreading, large leaves, Hairy pods, black seeds, moderately resistant to MYMV, Suitable for wet land and rice fallows cultivation.		
6	Mung bean	GM-6	2017	900-1000	Bold seeded, long pod, determinate growth habit with synchronize maturity and good quality for marketable as well as cooking traits. It is resistance against MYMV disease. It is recommended for cultivation in <i>kharif</i> and <i>summer</i> seasons of Gujarat.		
7	bean GM-7		2018	1000- 1100	Variety matures within 70-75 days (medium group), having indeterminate in growth habit with medium seed size and shiny green seed colour. It has high yield potential and resistant against MYMV disease. Recommended for <i>kharif</i> as well as summer seasons of Gujarat.		
8	Indian bean GNIB-21		1997	1200- 1300	Moderately tolerant to YMV, purple flower, bold seeded with high protein content (23.04%), better cooking quality suitable for <i>rabi</i> sowing in irrigated and rainfed conditions. Higher dal recovery (92%).		
9			2007	1200- 1500	Erect growth habit, Early maturity, Dark foliage, White flower, Determinate type and bold seeds, Higher <i>dhal</i> recovery		
10			2014	3000- 3500 (green pod)	Extra early flowering, Determinate type suited to intercrop, Good market and cooking quality Higher yield, Inflorescence shoots regeneration habit,		
11			2017	4500- 5000 (green pod)	Light green and curved pod with higher sugar and test weight, Preferred in south Gujarat market. Less vine type, suited to intercrop. Having inflorescence shoot		

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12	Urd bean	GU-3	2019	900-1100	regeneration habit. The variety is recommended fo late <i>kharif</i> & late <i>rabi</i> seasons in South Gujarat. Medium duration flowering and late maturity (95-100 days). Indeterminate growth habit and semi ving structure. Shiny seed & medium seed size (4-5 g) Medium pod length (8-10 cm). Yellow Mosaic Viru
End	orsed varie	tion			(YMV) resistant. Better market and cooking quality.
Enu		ues			Medium plant height with profuse branching, Sem
1	Pigeon pea	Vaishali	2007	1500- 2000	spreading and indeterminate growth, Black streaks o upper side of pods, Red flower colour, white bol seeds, high yield potential and resistance against SMI and wilt.
2		C-11	1997	1300- 1400	Suitable for <i>rabi</i> season or after <i>kharif</i> paddy harves in South Gujarat. Red seeded medium maturity and high yielding variety.
3	Mung bean	Co-4	1999	1250- 1300	Suitable for <i>rabi</i> season, grown in South Gujara region. Resistant to MYMV and BLB.
Cont	ribution in	varieties	1	1	
1		GT-101	2001	1200- 1300	White, bold seed with high protein content and highe dal recovery (78%) Suitable for inter cropping.
2	Pigeon	GTH-1	2004	1800- 2000	Early in maturity, first cytoplasmic-genetic sterilit (CMS) based hybrid, semi erect, NDT, white bol seeds.
3	pea	GJP-1	2014	2000- 2100 (Ir)	Moderately Resistant to wilt & SMD, green seed colou with ovul seed shape is white and 177 maturity days
4		GT-107			
5		GT-108			
6		K-851	1986	1400	Early, suitable for summer cultivation, moderatel tolerant to YMV. 19 % higher over GM-1.
7	Mung	GM-3	1993	1100- 1150	Suitable for summer season, Medium seed size wit better dal recovery.
8	bean	GM-4	2004	1250- 1300	Suitable for kharif, gave 35% higher yield over K-852 Early in maturity, High protein content (22.7%), Bol seed (4.27 g/100 seeds)
3		GM-8			
10	Urd	T-9	1979	1000	27% higher over G-75 and 13% over Zandewal, earl maturity (70-75 days) and suitable for intercroppin as well as summer cultivation.
11	bean	GU-1	2004	1100- 1200	Bold seeded (4.27g/100 seeds), high yielding moderately resistant to Cercospora Leaf Spot (CLS).
12		GU-2			
13		GC-3	1993	1200- 1400	Suitable for arid and semi- arid regions as well a heavy rainfall zone of S. Gujarat, White seeded, Earlin maturity.
14	Cowpea	GC-4	1997	900- 1000	67.8% higher grain yield over Pusa phalguni an 128% higher over GC-1. Tolerant YMV, white bol seeded (14.12 gm) with better cooking quality
15		GC-5	2004	1200- 1400	46% higher grain yield over GC-3, Red seeded
16	Chick	GG-1	1997	1200(R) 2000(Ir)	Wilt tolerant, suitable for rainfed and irrigate condition, semi spreading growth habit, medium lat medium sized, round reddish brown seed colour wit smooth surface.
	pea			1300-(R)	Suitable for rainfed and irrigated condition. Smoot

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1300-(R) Suitable for rainfed and irrigated condition. Smooth 1900-2000(Ir) GG-2 1998 and round bold seeded with reddish colour also suitable for "Jinjara" and dalia (roasted seeds). It is

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				good variety for intercultural with sugarcane.
18	GG-4	1999	1200 (R) 1900(Ir)	Wilt resistant with smooth, brown colored and round shaped seeds, suitable for irrigated as well as rainfed conditions.
19	GJG-3	2008	1720 (R)	Moderately Resistant to wilt and stunt, Yellow seed colour, Seed shape Owl's head and 98 maturity days
20	GG-5	2014	2500- 2700 (Ir)	Moderately Resistant to wilt and resistant to stunt, Brown seed colour, Seed shape Angular and 103 maturity days
21	GJG-6	2015	1800- 2000 (R)	Resistant to wilt and stunt, Brown seed colour, Seed shape Angular and 112 maturity days

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3. Castor

Sr. No.	Hybrid	Year of release	Yield Kg/ha	Characteristics		
Varieties Developed						
1	GNCH-1	2016	2450	Suitable for late <i>kharif/rabi</i> season, grown in Sout and Middle Gujarat region, resistant to wilt and roo rot, leaf hopper		

- Conducting Bij Mela, Workshop and off & on campus training programme on quality seed production, cultivation practices and IPM-IDM of regional crops.
- Staff delivered the lectures at different places viz. Sardar Smruti Kendra, Farmers Training centre and ATIC etc.
- > Farmers are being advised during krishi mahotsava and krishi mela.
- > Conducting demonstration plot and organizing field days on farmers field
- > On farm demonstration are arranged for farmers visit to research station
- > Farmers obtain the information by visit and interacting with scientists, staff and through telephone.
- Providing the literatures of cultivation practices and improved varieties to the farmer's this has created the awareness among the farming community.
- Conducting frontline demonstrations of castor as whole package and organizing field days on farmer's field.

Training Programme :-

Year	Number of training
2017-18	6
2018-19	10
2019-20	4
2020-21	2
2021-22	6

Front Line Demonstration :-

Sr. No.	Year	Сгор	Technology	Area (ha.)	No. of demonstrations /farmers
	2017-18	Green gram	Scientific package of practices	6	15
		Castor	Scientific package of practices	12	30
		Green gram	Scientific package of practices	1.4	6
3	2018-19	Castor	Scientific package of practices	7	15
		Green gram	Scientific package of practices	12	30
4	2019-20	Castor	Scientific package of practices	10	25
		Green gram	Scientific package of practices	12	30
5	2020-21	Green gram	Scientific package of practices	8	20
		Black gram	Scientific package of practices	4	10
6	2021-22	Green gram	Scientific package of practices	8	20
		Black gram	Scientific package of practices	4	10