

Seeds

SEEDS

Seed Supply Programme

Objectives

1. Seed is a critical determinant in increasing the agricultural production.
2. The performance and efficiency of other inputs depend on the quality of seed. certified/quality seed plays an important role in achieving higher yields.
3. Hence supply of quality seed to the farmer is one of the most important intervention to increase the production and productivity of any crop.
4. To bring more area under cultivation, certified or quality seed must be supplied at affordable prices and in adequate quantities to the farmers.
5. The area under cultivation is not going to increase significantly hence the thrust will have to be on raising productivity per unit of cultivated land.

The availability and use of quality seed is not a one time affair. Sustained increase in agriculture production and productivity necessarily requires continuous development of new and improved varieties of crops and efficient systems of production (Seed Chain) and supply of Certified/Quality seed to farmers.

In Andhra Pradesh, the seed production chain is being strengthened by producing various classes of seed i.e. Breeder seed, Foundation seed and Certified seed by different Government and Private institutions. The certified/quality and improved seed thus produced is being distributed to the farmers through the various Central and State schemes. This is one of the most effective way of increasing the production and productivity at the field level. Supply of seed on subsidy means the average farmers are able to purchase the most critical input in agriculture i.e. seed at affordable price which will help in achieving desirable increase in production and productivity. The main thrust while supplying the seed on subsidy is for varietal replacement and promotion of Pulses and Oilseed crops.

In order to achieve the food production target of the future, a major effort is required to enhance the seed replacement rate of various crops. It would require a major increase in the production of certified/quality seed.

I. Supply under different schemes

Seed Supply Plan for Kharif 2018 and Rabi 2018-19 is prepared based on the district wise, season wise seed requirement.

It is proposed to distribute 24.8 lakh qtl of seed during 2018-19, out of which a quantity of 11.45 lakh qtl is planned to be supplied under subsidy with a subsidy value of Rs 353.70 Crores. Arrangements are made for supply of quality seed on subsidy to the farmers under various schemes as detailed below:

1. National Food Security Mission (NFSM).
2. Rastriya Krishi Vikas Yojana- RAFTAAR (RKVY- RAFTAAR).

3. NFSM - Oil seeds (NMOOP)

4. State Agriculture Department with SDP funds.

The subsidy seed will be supplied by the various seed supplying nodal agencies i.e. APSSDC, APOILFED and NSC. In Ananthapuram and Chittoor districts it has been planned to distribute about 0.47 Lakh Qtl. of Groundnut seed in collaboration with WASSAN, an NGO. The various crop seeds will be distributed to the farmers on subsidy as per the rates approved by the Government of Andhra Pradesh.

Hybrid seed (private) in crops like Maize, Jowar, Bajra, Castor and Sunflower are supplied to the farmers on 50% subsidy limited to Rs.2500/- per qtl.

In Non NFSM districts i.e East Godavari, West Godavari, Krishna, Guntur, Prakasam, SPSR Nellore, Kurnool and Chittoor, it has been planned to distribute a quantity of 0.19 lakh qtl. of Paddy seed @Rs.500/- per qtl. under Non Plan.

Subsidy Seed Distribution through Aadhar enabled Bio-Metric System

Latest technology, Aadhar enabled Webland based Bio- Metric system was introduced in seed distribution for maintaining transparency and to avoid malpractices. All the necessary arrangements were made for distribution of entire subsidy seed through Bio-Metric system.

The seed supply plan for Kharif 2018 is shown in Annexure I and Rabi 2018-19 is shown in Annexure II and Subsidy seed plan is shown in Annexure V, VI and VII. District wise, crop wise total seed requirement for Kharif 2018 and Rabi 2018-19 is given in Annexure III and IV respectively.

Various initiatives have been planned by the Government to supply adequate quantity of required seed at right time to the farmers at affordable prices and also for assuring good crop returns even in deficit rainfall conditions during the cropping season:

II. Navadhanyalu/ Poly cropping/ Mixed cropping

- Mixed cropping is growing of two or more crops simultaneously on the same piece of land which is also known as multiple cropping or poly cropping.
- **Objective:** To ensure assured crop returns with two or more crops since the crop critical or stress periods surely coincide with minimum rain spells during the crop period.
- This system is an insurance against crop failures due to abnormal weather conditions as any of the crop grown gives minimum yield to the farmer. These crops can address the regular health disorders which are common now a days (as these millets & pulses contain high proteins and fibre) besides assured income in any kind of unfavorable conditions.
- It has been planned to organize Poly cropping during Kharif-2018 by supplying a quantity of 15,429 qtl. of other crop seed as per the subsidy pattern approved by the Government. The crop wise details are as follows.

Seed distribution under Polycropping during Kharif 2018

S.No.	Crop	Qty in Qtls
1	Korra	9
2	Ragi	14
3	Cow pea	778
4	Red gram	5666
5	Black gram	241
6	Green gram	938
7	Bengal gram	225
8	Bajra	1501
9	Jowar	3148
10	Field bean	1308
11	Sesamum	24
12	Maize	18
13	Castor	1026
14	Horse gram	33
15	Cluster bean	300
16	Gongura	200
TOTAL		15429

III. CMSS

- Community Managed Seed Systems is being carried out in Ananthapuramu district since 2011 through the LTA WASSAN (NGO) .Through this system, the farmer to farmer seed exchange with in the village or other neighbouring villages will take place. The department of agriculture supplies the quality seed in time through MVKs (Mana Vithana Kendralu). The APSSCA through the para certifiers and the Department through the Agricultural Officers are determining the quality of seed. APSSDC will provide the advance amount to the MVKs at the time of crop harvest for seed procurement.
- During 2018-19, it has been planned to distribute a quantity of 0.47 lakh Qtl. of Groundnut crop seed through WASSAN in Ananthapuramu and Chittor districts.

IV. Green Manuring

Andhra Pradesh state is having an area of about 24 lakh ha under Paddy crop. Moving towards the scenario of protecting the natural soil health, the concept of Green manuring is introduced to gradually reduce the use of chemical fertilizers and aiming in healthy organic production.

ANNEXURE I
SEED SUPPLY PLAN FOR KHARIF 2018

(Area in lakh ha, Quantity in Lakh qtls)

S. No	Crop	Area		Seed rate Kgs/ha	Seed required		Present SRR %	Planned SRR %	Seed required for planned SRR%	Subsidy seed planned	Expected seed availability for kharif 2018					
		Normal area	Area planned		As per normal area	As per planned area					DOA	SSC	Other agencies	NSC	Pvt	Total
1	Paddy	15.5	16.26	50	7.75	8.13	80	80	6.50	1.28	3.312	1.9264	0	0	2.974	8.21
2	Jowar	0.316	0.42	10	0.03	0.04	57	58	0.02	0.01	0.049			0	0.03	0.08
3	Bajra	0.37	0.45	4	0.01	0.02	100	100	0.02	0.00	0	0	0	0	0.02	0.02
4	Maize	0.956	1.25	17.5	0.17	0.22	100	100	0.22	0.03				0	0.285	0.29
5	Ragi	0.294	0.30	4	0.01	0.01	45	48	0.01	0.00					0.014	0.01
6	Redgram	2.33	2.87	10	0.23	0.29	73	74	0.21	0.08				0.0237	0.243	0.27
7	Greengram	0.26	0.55	20	0.05	0.11	52	54	0.06	0.01		0.06		0.002	0.002	0.06
8	Blackgram	0.37	0.80	20	0.07	0.16	60	60	0.10	0.03		0.32	0.0467	0.0045	0.002	0.37
9	Groundnut	8.306	9.23	150	12.46	13.85	63	63	8.73	5.03	0.0135	2.6245	4.43956	0.0766	2.15	9.30
10	Sesamum	0.246	0.33	4	0.01	0.01	34	34	0.00	0.00		0.002				0.00
11	Castor	0.412	0.50	10	0.04	0.05	100	100	0.05	0.01					0.008	0.01
12	Sunflower	0.096	0.11	5	0.00	0.01	100	100	0.01	0.00						0.00
13	Soybean	0.014	0.05	90	0.01	0.05	100	100	0.05	0.01		0.02			0.03	0.05
14	Other crops	10.06	9.65	20	2.01	1.93	26	27	0.52	0.07		0.07			0.56	0.63
Total		39.532	42.77		22.87	24.87			16.49	6.54	3.37	5.02	4.49	0.11	6.32	19.31

ANNEXURE II
SEED SUPPLY PLAN FOR RABI 2018-19

(Area in lakh ha, Quantity in Lakh qtls)

S. No	Crop	Area		Seed rate kgs / ha	Seed required		Present SRR %	Planned SRR %	Seed required for planned SRR%	Subsidy seed planned	Expected seed availability for kharif 2018					
		Normal area	Area planned		As per normal area	Total seed required					DOA	SSC	Other agencies	NSC	Pvt	Total
1	Paddy	7.43	7.60	50	3.715	3.801	85	85	3.231	0.197	0.350	0.941	0.049	2.325	3.665	
2	Jowar	1.03	1.20	10	0.103	0.120	57	57	0.068	0.036	0.000	0.000	0.000	0.038	0.038	
3	Bajra	0.03	0.05	4	0.001	0.002	100	100	0.002	0.000	0.000	0.000	0.000	0.020	0.020	
4	Maize	1.98	2.31	17.5	0.346	0.405	100	100	0.405	0.004	0.000	0.000	0.000	0.050	0.050	
5	Bengalgram	4.41	4.77	62.5	2.754	2.981	65	65	1.938	3.031	0.042	1.494	0.908	0.449	3.042	
6	Redgram	0.04	0.05	10	0.004	0.005	73	74	0.003	0.001	0.000	0.010	0.000	0.000	0.010	
7	Greengram	1.29	1.70	20	0.258	0.340	52	54	0.184	0.011	0.008	0.243	0.000	0.083	0.334	
8	Blackgram	3.47	4.40	20	0.693	0.880	60	60	0.528	0.023	0.009	0.315	0.005	0.336	0.664	
9	Groundnut	0.84	0.95	150	1.254	1.426	63	63	0.898	0.274	0.032	0.751	0.176	0.000	1.234	
10	Sesamum	0.35	0.35	5	0.018	0.018	34	35	0.006	0.006	0.000	0.010			0.010	
11	Sunflower	0.28	0.23	5	0.014	0.012	100	100	0.012	0.002				0.020	0.020	
12	Other crops	2.14	1.93	20	0.43	0.39	38	40	0.154	0.12		0.120		0.200	0.320	
	Total	23.27	25.54		9.59	10.38			7.43	3.705	0.440	3.884	1.138	0.150	3.795	9.407

ANNEXURE III
DISTRICT WISE TOTAL SEED REQUIREMENT AS PER SEED SUPPLY PLAN FOR KHARIF 2018

(Qty in Qtls)

S.No	District	Paddy	Jowar	Bajra	Ragi	Maize	Red gram	Green gram	Black gram	Ground nut	Castor	Sesamum	Soy bean	Other crops	Total
1	Srikakulam*	45001	0	0	250	1500	100	25	40	750		0		0	47666
2	Vizianagaram*	41050	0		0	200	50	50	145	1500		0		0	42995
3	Visakhapatnam*	19100			25	100	100	0	30	200		10		1200	20765
4	East Godavari	5400			0		50	100	500	0		0		0	6050
5	West Godavari	0			0		0	100	100	0		0		0	200
6	Krishna	7300			0	0	30	20	150	0		0		0	7500
7	Guntur	6700			0	0	250	100	300	0		25	100	0	7475
8	Prakasam	0	56	63	0	0	500	200	300	50	100	200		1500	2969
9	S.P.S.R.Nellore	3919	0	11	0	0	100	30	300	0		6		0	4366
10	Y.S.R.Kadapa*	0	0	0	0	0	1000	50	50	45000		0		0	46100
11	Kurnool	0	20	20	0	250	500	50	600	40000		0		2.5	41465
12	Anantapuram*	0	500		0	1200	5000	0	0	340000	600	0	700	4000	352000
13	Chittoor	0			53		0	0	0	75000		0		0	75053
	Total	128470	576	94	328	3250	7680	725	2515	502500	700	241	800	6725	654604

ANNEXURE IV
DISTRICT WISE TOTAL SEED REQUIREMENT AS PER SEED SUPPLY PLAN FOR RABI 2018-19

(Qty in Qtls)

S.No	District	Paddy	Jowar	Bajra	Maize	Red gram	Green gram	Black gram	Bengal gram	Ground nut	Castor	Sesamum	Sun flower	Soy bean	Other crops	Total
1	Srikakulam*	0			12000	0	500	500	0	3000		50			400	16450
2	Vizianagaram*	1740				0	200	200	100	1570		0			0	3810
3	Visakhapatnam*	900				0	50	150	80	600		20			5	1805
4	East Godavari	1760			100	0	100	60	1000	0		20			0	3040
5	West Godavari	0			0	0	50	100	0	0		0			0	150
6	Krishna	400				0	100	300	1600	0		0			0	2400
7	Guntur	400	100		400	50	50	500	15000	200		0			0	16700
8	Prakasam	0	100		250	0	0	50	65000	0	40	50	150		1530	67170
9	S.P.S.R. Nellore	14548	52		170	90	50	100	10300	50		175	0		30	25565
10	Y.S.R. Kadapa*	0				0	0	100	65000	4000		250			0	69350
11	Kurnool	0				0	0	50	85000	500		0			0	85550
12	Anantapuramu*	0				0	0	0	60000	7500		0			0	67500
13	Chittoor	0				0	0	200	0	10000		0			320	10520
	TOTAL	19748	252		12920	140	1100	2310	303080	27420	40	565	150	0	2285	370010

District wise, Crop wise, Variety wise allotment of seed for distribution during Kharif 2018

(Qty in Qtls)

Sl.No	District	GROUND NUT						BLACK GRAM				GREEN GRAM					RED GRAM								
		K 6	K 9	Dharani	Narayani	TAG 24	sub TOTAL	PU 31	TBG 104	GBG 1	LBG 752	SUB TOTAL	LGG 460	LGG 407	MGG 295	WGG 42	IPM 2-14	SUB TOTAL	LRG 41	ICPL 87119	ICPL 85063	ICPH 2740	LRG 52	SUB TOTAL	
1	Srikakulam*	750	0	0	0	0	750	20	0	0	20	40	13	13				25	50	50				100	
2	Vizianagaram*	1000	500	0	0	0	1500	130			15	145	40	10				50	45			5		50	
3	Visakhapatnam*	100	100	0	0	0	200	15	0	0	15	30	0					0	100				100		
4	East Godavari	0	0	0	0	0	0	500				500	100					100	50				50		
5	West Godavari	0	0	0	0	0	0	100	0	0	0	100	100					100					0		
6	Krishna	0	0	0	0	0	0	150				150	20					20	30				30		
7	Guntur	0	0	0	0	0	0	250	50	0	0	300			25		75	100	250				250		250
8	Prakasam	0	0	0	0	50	50	200	0	0	100	300	200					200	500				500		500
9	S.P.S.R.Nellore	0	0	0	0	0	0	108	140	52	0	300	30					30	60				40		100
10	Y.S.R.Kadapa*	28635	0	0	16365	0	45000	50			50	50						50	1000				1000		
11	Kurnool	40000	0	0	0	0	40000	600			600	50						50	500				500		
12	Anantapuramu*	272000	34000	13600	20400	0	340000				0	0						0	3800	600	600		5000		
13	Chittoor	66880	0	0	8120	0	75000				0	0						0					0		
	Total	409365	346000	136000	44885	50	502500	2123	190	52	150	2515	603	10	13	25	75	725	6385	650	600	5	40	7680	

District wise, Crop wise, Variety wise allotment of seed for distribution during Kharif 2018

(Qty in Qus)

Sl. No	District	Paddy >10 Years old										Paddy < 10 years old							Total Paddy	
		BPT-5204	BPT-3291	MTU-1001	RGL-2537	MTU-1010	MTU-7029	NLR-145	MTU-3626	SUB-TOTAL	MTU-1061	MTU-1064	MTU-1075	NLR-34449	NLR-33892	RNR-15048	MTU-1121	RP Bio-226		Sub Total
1	Srikulam*	7029	750	15000	225	553	8656			32213	1613	450	9637	1088					12788	45001
2	Vizianagaram*	2500	0	29000	1400	450	1900	50	35300	150	250	2500	200	200	100	2550			5750	41050
3	Visakhapatnam*	2500	1200	1600	10500	300	900		17000	400	900	600	200						2100	19100
4	East Godavari	750		500	2000	500			3750	150	1000	50							1650	5400
5	West Godavari								0										0	0
6	Krishna	4500				50			4550	2500		250							2750	7300
7	Guntur	6000						500	6500	100			100						200	6700
8	Prakasam								0										0	0
9	S.P.S.R.Nellore	1689				435			2124				1465	330					1795	3919
10	Y.S.R.Kadapa*								0										0	0
11	Kurmool								0										0	0
12	Anantapuramu*								0										0	0
13	Chittoor								0										0	0
Total		24968	1950	46100	14125	2238	11506	500	101437	4913	2600	13037	3053	330	100	2550	450	27033	128470	

District wise, Crop wise, Variety wise allotment of seed for distribution during Kharif 2018

(Qty in Qtls)

Sl. No	District	Maize		Jowar		Bajra		Ragi			Sesamum				Castor		Sun flower		Cow pea	Korra			Horse gram	Rajma	Soybean	Other crops total
		Pvt Hybrid	1500	Pvt Hybrid	0	Pvt Hybrid	0	Sri chaithanya	GPU 2848	sub total	YLM 17	YLM 11	YLM 66	sub total	Pvt Hybrid	Pvt Hybrid	Pvt Hybrid	Suryana ndi		SIA 3085	sub total					
1	Srikakulam*	1500	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1750
2	Vizianagaram*	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
3	Visakhapatnam*	100	0	0	0	25	25	25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1335
4	East Godavari	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	West Godavari	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Krishna	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Guntur	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	125
8	Prakasam	0	56	63	11	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	1919
9	S.P.S.R.Nellore	0	0	11	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	17
10	Y.S.R. Kadapa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Kurnool	250	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	315
12	Anantapuram*	1200	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7000
13	Chittoor	0	0	0	0	0	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	Total	3250	576	94	275	53	328	241	0	0	241	0	241	700	0	2500	0	25	25	3000	1200	800	12714			

District wise, Crop wise, Variety wise allotment of seed for distribution during Rabi 2018-19

(Qty in Qtls)

S.No.	District	BLACK GRAM Rabi					GREEN GRAM Rabi				RED GRAM			Total Pulses	
		PU 31	LBG 752	TBG 104	GBG 1	Sub Total	LGG 460	LGG 407	MGG 295	IPM 2-14	Sub Total	LRG 41	LRG 52		Sub Total
1	Srikakulam*	250	0	250	0	500	400	0	100	0	500			0	1000
2	Vizianagaram*	110	90			200	150	33	17	0	200			0	400
3	Visakhapatnam*	112	38			150	50				50			0	200
4	East Godavari	60				60	100				100			0	160
5	West Godavari	100				100	50				50			0	150
6	Krishna	150	150			300	100				100			0	400
7	Guntur	375		125		500	10			40	50	50		50	600
8	Prakasam	25	25			50	0				0			0	50
9	S.P.S.R.Nellore	56		34	10	100	50				50	40	50	90	240
10	Y.S.R.Kadapa*	100				100	0				0			0	100
11	Kurnool	50				50	0				0			0	50
12	Anantapuramu*	0				0					0			0	0
13	Chittoor	200				200					0			0	200
	Total	1588	303	409	10	2310	910	33	117	40	1100	40	100	140	3550

District wise, Crop wise, Variety wise allotment of seed for distribution during Rabi 2018-19

(Qty in Qdts)

Sl.No	District	BENGAL GRAM				GROUND NUT				Total
		JG 11	KAK 2	pkvk	Total	K 6	K 9	Dharani	TAG 24	
1	Srikakulam*	0	0	0	0	2769	0	231	0	3000
2	Vizianagaram*	100	0	0	100	1500	70	0	0	1570
3	Visakhapatnam*	80	0	0	80	375	225	0	0	600
4	East Godavari	1000	0	0	1000	0	0	0	0	0
5	West Godavari	0	0	0	0	0	0	0	0	0
6	Krishna	1600	0	0	1600	0	0	0	0	0
7	Guntur	14060	0	940	15000	0	0	0	200	200
8	Prakasam	46430	18570	0	65000	0	0	0	0	0
9	S.P.S.R.Nellore	6300	4000	0	10300	0	0	0	50	50
10	Y.S.R.Kadapa*	65000	0	0	65000	4000	0	0	0	4000
11	Kurnool	85000	0	0	85000	500	0	0	0	500
12	Anantapuramu*	60000	0	0	60000	6000	600	900	0	7500
13	Chittoor	0	0	0	0	7740	0	0	2260	10000
	Total	279570	22570	940	303080	22884	895	1131	2510	27420

District wise, Crop wise, Variety wise allotment of seed for distribution during Rabi 2018-19

(Qty in Qtls)

Sl. No	District	Paddy >10 years old						Paddy < 10 years old						Sub Total	Total Paddy
		BPT- 5204	MTU- 1001	MTU- 3626	MTU- 1010	Total	NLR- 34449	MTU- 1121	MTU- 1156	RNR 15042	NLR- 33892	ADT 37			
1	Srikakulam*	0				0								0	0
2	Vizianagaram*		40		1600	1640	50	50						100	1740
3	Visakhapatnam*		150		700	850	50	0						50	900
4	East Godavari		100	1000	500	1600		100	60					160	1760
5	West Godavari				0	0								0	0
6	Krishna				200	200		200						200	400
7	Guntur				100	100		300						300	400
8	Prakasam					0								0	0
9	S.P.S.R.Nellore	4755			2185	6940	6658		500	150	300			7608	14548
10	Y.S.R.Kadapa*					0								0	0
11	Kurnool					0								0	0
12	Anantapuramu*					0								0	0
13	Chittoor					0								0	0
	Total	4755	290	1000	5285	11330	7058	350	60	150	300	500	8418	19748	

District wise, Crop wise, Variety wise allotment of seed for distribution during Rabi 2018-19

(Qty in Qtls)

Sl. No	District	Maize		Jowar		Bajra		Ragi		Sesamum				Castor		Sunflower		Cowpea	Horse gram	Other crops
		Pvt Hybrid		Pvt Hybrid		Pvt Hybrid		RATNA	GIRI	YLM 66	YLM 17	YLM 16	sub total	Pvt Hybrid		Pvt Hybrid				
1	Srikakulam*	12000					400			50			50						12450	
2	Vizianagaram*																		0	
3	Visakhapatnam*						5	20					20						25	
4	East Godavari	100								20			20						120	
5	West Godavari	0																	0	
6	Krishna																		0	
7	Guntur	400	100																500	
8	Prakasam	250	100	30						50			50		40	150			2120	
9	S.P.S.R.Nellore	170	52							100	75	175	100			0	10	20	427	
10	Y.S.R.Kadapa*									250		250							250	
11	Kurnool																		0	
12	Anantapuramu*																		0	
13	Chittoor																	320	320	
Total		12920	252	30	405	20	470	75	565	40	150	1510	340	16212						

CROP WISE SUBSIDY SEED REQUIREMENT 2018-19

S.No	Crop	Kharif 2018		Rabi 2018-19		Total	
		Planned requirement in Qtls	Subsidy Rs in Lakhs *	Planned requirement in Qtls	Subsidy Rs in Lakhs *	Planned requirement in Qtls	Subsidy Rs in Lakhs *
1	2	3	4	5	6	7	8
1	Ground nut	502500	15879	27420	866.472	529920	16745.472
2	Paddy						
a	Paddy > 10 years old	101437	507.185	11330	56.65	112767	563.835
b	Paddy <10 years old	27033	270.33	8418	84.18	35451	354.51
3	Red gram	7680	184.32	140	3.36	7820	187.68
4	Green gram	725	16.92875	1100	25.685	1825	42.61375
5	Black gram	2515	81.36025	2310	74.7285	4825	156.08875
6	Bengal gram	0	0	303080	9713.714	303080	9713.714
7	Jowar	576	14.4	252	6.3	828	20.7
8	Maize	3250	81.25	12920	323	16170	404.25
9	Bajra	94	2.35	30	0.75	124	3.1
10	Ragi	328	9.02	405	11.1375	733	20.1575
11	Sesamum	241	9.3267	565	21.8655	806	31.1922
12	Castor	700	17.5	40	1	740	18.5
13	SunFlower	0	0	150	3.75	150	3.75
14	Cowpea	2500	59.15	1510	35.7266	4010	94.8766
15	Korra	25	0.525	0	0	25	0.525
16	Horsegram	3000	89.01	340	10.0878	3340	99.0978
17	Rajmah	1200	35.604	0	0	1200	35.604
18	Soybean	800	14.6	0	0	800	14.6
19	Daincha	68445	3542.029	0	0	68445	3542.029
20	Sun hemp	26432	1108.8224	0	0	26432	1108.8224
21	Pillipesara	25635	2191.7925	200	17.1	25835	2208.8925
	Total	775116	24114.5036	370210	11255.5069	1145326	35370.0105

During the current year it is planned to distribute a total quantity of 1.21 lakh qtl. of Green Manure crop seed to the farmers on 75 percent subsidy. The details are as follows:

Green manure seed to be distributed during 2018-19

(Qty in quintals)

Sl.No	District	Daincha	Sun hemp	pillipesara	Greenmanure Total
1	Srikakulam*	5000	3000	0	8000
2	Vizianagaram*	3500	2000	500	6000
3	Visakhapatnam*	700	700	100	1500
4	East Godavari	750	500	2700	3950
5	West Godavari	6335	4025	4785	15145
6	Krishna	10000	500	1500	12000
7	Guntur	2500	3500	4000	10000
8	Prakasam	2000	4000	500	6500
9	S.P.S.R. Nellore	12900	3400	10000	26300
10	Y.S.R. Kadapa*	15000	2000	1500	18500
11	Kurnool	4500	0	250	4750
12	Anantapuramu*	200	0	0	200
13	Chittoor	5060	2807	0	7867
Total		68445	26432	25835	120712

Seed distribution under Polycropping during kharif 2018

S.No.	Crop	Qty in Qtls
1	Korra	9
2	Ragi	14
3	Cow pea	778
4	Red gram	5666
5	Black gram	241
6	Green gram	938
7	Bengal gram	225
8	Bajra	1501
9	Jowar	3148
10	Field bean	1308
11	Sesamum	24
12	Maize	18
13	Castor	1026
14	Horse gram	33
15	Cluster bean	300
16	Gongura	200
TOTAL		15429

Seed Village Programme

The Seed Village scheme ensures supply of quality certified seed of notified varieties to the farmers in time at their vicinity at affordable prices besides ensuring quick multiplication of new seed varieties in a shorter time in that mandal /district based on the crop situation.

Compact area approach has to be followed under this scheme. The number of farmers per unit of 10 ha may be a minimum of 25 and subject to a maximum of 150.

Guidelines of the scheme

- Supply of Foundation seed on 50 percent subsidy for cereals and 60 percent subsidy for oilseeds and pulses for Seed Village Programme (SVP) and 75 percent subsidy for Certified Seed Production (CSP).
- Trainings: One day training thrice during the season will be conducted to the farmers on seed production technology.
- Major crop of the village should be selected under Seed Village Programme where programme is being organized.
- The seed village plots should be selected on soil test basis where good soil fertility is observed and where sufficient ground water facility is available and which is best suited for seed production.
- The foundation/certified seed -1 supplied by the agencies will be utilized under SVP and the seed that is produced in the SVP units will in turn be used for supply of seed under subsidy seed programme in the coming Kharif 2018 and Rabi 2018-19.

Seed Village Targets & Achievements during 2017-18

Season	Area (ha.)	F/S Seed distributed (Qts)	No. of farmers benefitted	Total expenditure (Rs. in Lakhs)
Kharif-2017	9780	8053	24450	
Rabi-2017-18	21320	22845	53300	1833.33
TOTAL	31100	30898	77750	1833.33

Action Plan for the year 2018-19

In order to achieve 100 percent seed replacement in the coming year, it is planned to implement the programme in 74,050 Ha. area with targeted certified seed production of 15.56 lakh qtls and with a budget proposal of Rs.4325.68 lakhs during the year 2018-19 which is as detailed below.

Season	Area targeted (ha)	F/S requirement qtls	No. of farmers to be benefitted	Budget proposals (Lakhs)
Kharif-18	21210	17206	53025	671.26
Rabi-2018-19	52840	65265	132100	3654.42
TOTAL	74050	82471	185125	4325.68

Certified Seed Production through Seed Villages (CSP)

- Through the Certified Seed Production programme, quality Foundation seed of Groundnut crop will be multiplied and distributed under 75 percent subsidy to the farmers.
- **Trainings** : one day training thrice during the season will be conducted to the farmers on Seed Production technology.

Action Plan for 2018-19

Year	Area target (Ha)	F/S Seed requirement (Qtls)	No.of Farmers to be benefitted	Requirement Amount (Lakhs)
2018-19	28770	51786	71925	2951.81

Community Managed Seed Systems (CMSS)

Timely supply of quality seed before the onset of monsoon is the challenge faced by Agriculture department. Decentralizing the seed production to mandal/village level and distribution of quality seed through farmer organizations is the key concept of Community Managed Seed System (CMSS). CMSS mode integrates

- foundation seed production using breeder seed supplied by the Agriculture University
- production of certified seed through ‘Seed Village Program’ and
- distribution of certified seed on subsidy to eligible farmers.

The purpose is to internalise seed value chain within a cluster of Gram Panchayats / Mandals/ District and resting the processes with farmers’ organizations i.e Mana Vithana Kendralu(MVKs).

During 2017-18, a quantity of 1,40,000 Quintals of certified seed has been developed through 17,595 quintals of foundation seed and made ready to distribute to the farmers during Kharif 2018 under subsidy seed programme.

During 2018-19, it is proposed to produce 4,14,288 quintals of certified seed from 51,786 quintals of foundation seed from 28,770 ha area with an estimated budget of Rs.3437.30 Lakhs.

DISTRICT WISE PHYSICAL & FINANCIAL TARGETS OF BES 2018-19 under SVP & CSP

SI No	District	Paddy		Blackgram		Greengram		Redgram		Bengalgram		Sesamum		Groundnut		Total		Target area	Training cost	Certification charges for Groundnut (CSP)	Total
		Phy	Fin in Lakhs	Phy	Fin in Lakhs	Phy	Fin in Lakhs	Phy	Fin in Lakhs	Phy	Fin in Lakhs	Phy	Fin in Lakhs	Phy	Fin in Lakhs	Phy	Fin in Lakhs				
1	Anantapuramu	200	25.50	0	0.00	0	0.00	15	0.90	500	191.25	0	0.00	1547	1378.38	2262	1596.03	22620	169.65	92.82	1858.50
2	Chittoor	100	12.75	20	4.08	0	0.00	0	0.00	0	0.00	0	0.00	350	311.85	470	328.68	4700	35.25	21.00	384.93
3	East Godavari	300	38.25	20	4.08	25	2.85	0	0.00	0	0.00	0	0.00	0	0.00	345	45.18	3450	25.88	0.00	71.06
4	Guntur	52	6.63	20	4.08	20	2.28	25	1.50	50	19.13	0	0.00	0	0.00	167	33.62	1670	12.53	0.00	46.14
5	Y.S.R.Kadapa	100	12.75	0	0.00	0	0.00	25	1.50	400	153.00	0	0.00	400	356.40	925	523.65	9250	69.38	24.00	617.03
6	Krishna	200	25.50	40	8.16	20	2.28	0	0.00	0	0.00	0	0.00	0	0.00	260	35.94	2600	19.50	0.00	55.44
7	Kurnool	150	19.13	20	4.08	0	0.00	50	3.00	400	153.00	0	0.00	500	445.50	1120	624.71	11200	84.00	30.00	738.71
8	Prakasam	100	12.75	20	4.08	0	0.00	35	2.10	350	133.88	0	0.00	0	0.00	505	152.81	5050	37.88	0.00	190.68
9	S.P.S.R.Nellore	200	25.50	0	0.00	0	0.00	26	1.56	100	38.25	0	0.00	0	0.00	326	65.31	3260	24.45	0.00	89.76
10	Srikakulam	150	19.13	0	0.00	30	3.42	0	0.00	0	0.00	15	0.65	50	44.55	245	67.75	2450	18.38	3.00	89.12
11	Visakhapatnam	120	15.30	10	2.04	20	2.28	0	0.00	0	0.00	0	0.00	20	17.82	170	37.44	1700	12.75	1.20	51.39
12	Vizianagaram	150	19.13	20	4.08	20	2.28	20	1.20	0	0.00	0	0.00	10	8.91	220	35.60	2200	16.50	0.60	52.70
13	West Godavari	350	44.63	20	4.08	20	2.28	0	0.00	0	0.00	0	0.00	0	0.00	390	50.99	3900	29.25	0.00	80.24
Grand Total		2172	276.93	190	38.76	155	17.67	196	11.76	1800	688.5	15	0.65	2877	2563.41	7405	3597.68	74050	555.38	172.62	4325.68

State Seed Farms

There are 16 State Seed Farms under the Department of Agriculture located in 10 Districts.

Objective

Production of qualitative foundation seed utilizing the breeder seed.

The 16 State Seed Farms are taking up qualitative seed production programme utilizing the breeder seed from the ANGRAU and foundation seed is produced from State Seed farms. The seed produced will be supplied to the farmers through seed village programme.

Benefits of the Programme

1. The foundation seed produced in the farms is being utilized under Seed Village Programme implemented by the department.
2. The certified seed produced in the farms are being sold to the farmers of that village and surrounding villages.

Cropping Programme during 2018-19

During the year 2018-19, it is planned to cover an extent of 303.62 ha by utilizing 259.38 qtls Breeder seed / Foundation seed to produce 12673.50 qtls of foundation/ certified Seed.



ANNEXURE-I
Cropping Programme in the State Seed Farms during Kharif-2018

Extent in ha & Qty in qtls

S.No	Farm	District	Paddy		Blackgram		Groundnut		Sesamum		Total	
			Extent	seed	Extent	seed	Extent	seed	Extent	seed	Extent	seed
1	Peddapeta	Srikakulam	16.00	12.00							16.00	12.00
2	Samalkot	East Godavari	12.00	9.00							12.00	9.00
3	Undi	West Godavari	6.40	4.80							6.40	4.80
4	Kovvali	West Godavari	33.80	25.35							33.80	25.35
5	Chintalapudi	West Godavari			5.00	16.25					5.00	16.25
6	Ghantasala	Krishna	6.16	4.61							6.16	4.61
7	Amaravathi	Guntur									0.00	0.00
8	Chinnapavani	Prakasam							5.00	0.31	5.00	0.31
9	Edurur	Kurnool	4.00	3.50							4.00	3.50
10	PDDF, Yemmiganoor	Kurnool	22.00	16.50							22.00	16.50
11	FTC, Nandyal	Kurnool	3.50								3.50	0.00
12	PDDF Kanekal	Ananthapuramu	27.00	20.25							27.00	20.25
13	SMF, Kanekal	Ananthapuramu	29.00	21.75							29.00	21.75
14	S.Uppalapadu	Y.S.R.Kadapa									0.00	0.00
15	Mahadevamangalam	Chittoor					3.00	7.50			3.00	7.50
16	Nagalapuram	Chittoor	12.00	9.00	0.40	0.10	2.00	4.50			14.40	13.60
		Grand Total	171.86	126.76	0.40	0.10	10.00	28.25	5.00	0.31	187.26	155.42

Annexure-II

Cropping Programme in the State Seed Farms during Rabi-2018-19

Extent in ha & Qty in qtls

S.No	Farm	District	Paddy		Blackgram		Bengalgram		Groundnut		Sesamum		Total	
			Extent	seed	Extent	seed	Extent	seed	Extent	seed	Extent	seed	Extent	seed
1	Peddapeta	Srikakulam											0.00	0.00
2	Samalkot	East Godavari	12.00	9.00									12.00	9.00
3	Undi	West Godavari	6.40	4.80									6.40	4.80
4	Kovvali	West Godavari	33.80	25.35									33.80	25.35
5	Chintalapudi	West Godavari									5.00	0.31	5.00	0.31
6	Ghantasala	Krishna			6.16	2.40							6.16	2.40
7	Amaravathi	Guntur											0.00	0.00
8	Chinnapavani	Prakasam	10.00	7.50									10.00	7.50
9	Edurur	Kurnool					9.00	8.50					9.00	8.50
10	PDDF, Yemmiganoor	Kurnool											0.00	0.00
11	FTC, Nandyal	Kurnool											0.00	0.00
12	PDDF Kanekal	Ananthapuramu											0.00	0.00
13	SMF, Kanekal	Ananthapuramu	8.00	6.00									8.00	6.00
14	S.Uppalapadu	Y.S.R.Kadapa					10.00	9.00					10.00	9.00
15	Mahadevamangalam	Chittoor							2.00	5.10			2.00	5.10
16	Nagalapuram	Chittoor			4.00	1.00			10.00	25			14.00	26.00
		Grand Total	70.20	52.65	10.16	3.40	19.00	17.50	12.00	30.10	5.00	0.31	116.36	103.96

Cropping programme during 2018-19 in the State Seed Farms (Plan)

Extent in ha & seed in qtls

S.No	Crop	Kharif-2018			Rabi-2018-19			Total		
		Area	B/S	Estimated Yield	Area	B/S	Estimated Seed	Area	B/S	Estimated Seed
1	Paddy	171.86	126.76	8593.00	70.2	52.65	3510.00	242.06	179.41	12103.00
2	Blackgram	0.4	0.1	2.50	10.16	3.4	61.00	10.56	3.50	63.50
3	Bengalgram			0.00	19	17.5	285.00	19.00	17.50	285.00
4	Groundnut	10	28.25	150.00	12	30.1	72.00	22.00	58.35	222.00
5	Sesamum	5	0.31	20.00	5	0.31	20.00	10.00	0.62	40.00
	Total	187.26	155.42	8745.50	116.36	103.96	3928.00	303.62	259.38	12673.50

Seed Regulation

- A focused annual target of 7865 seed samples is fixed on prorata basis, out of which 80 percent samples will be drawn in Kharif 2018 before sowings attain full swing. The remaining 20 percent will be drawn during Rabi 2018-19. (Annexure)
- The Pre-release Quality Assurance Programme will be implemented during this year 2018-19 and the samples will be under law enforcement category and action in case of substandard seed will be dealt under applicable provisions of Seeds Act 1966 and existing seeds laws.
- Establishment of new DNA Lab is proposed at Amaravathi, Guntur to cater analytical services for identification of varieties, Genetic purity test, identification of events and quantity of Bt protein in GM crops besides testing all other crops for PMG analysis.
- Further in view of empowerment of existing notified seed testing labs, the seed samples of Bt cotton hybrid will be referred to STLs Yemmiganur and DNA Fingerprinting Lab, Guntur under law enforcement category.
- A separate target of 1190 seed samples of cotton is included in the seed samples target.
- In view of previous year experiences in case of chillies field complaints, separate target of 485 seed samples of chillies are also included in the annual target of seed samples.
- The Government of Andhra Pradesh has issued G.O. MS. No. 19 in which detailed operational guidelines were issued for the maintenance and verification of R&D units of the seed companies in the state.
- Proposals were submitted to the Government for approval and to bring an enactment of “AP Seeds Act 2017 duly rectifying the defects in the existing “The Seeds Act 1966”.
- Action in case of seed samples declared substandard wherein, instead of restricting legal action to the particular district only, the particulars of seed lots declared not conforming to prescribed standards is communicated to all the district Joint Directors of Agriculture for uniform action in respect of seed lot and to draw samples and initiate action accordingly.
- Targets for the Single Window Diagnostic Facility Seed Testing Labs is fixed as 600 seed samples per year, with a view to increase drawal of samples under service category by the extension staff and also by farmers so as to ensure quality seed availability to the farmers.
- Trainings to Seed Inspectors on Seed quality regulation and also to the Seed Analysts on seed testing procedures will be imparted.
- All the Joint Directors of Agriculture in the state shall be alerted to take-up frequent inspections followed by necessary action seeking detentions, seizures, booking cases etc. during the peak season to curb flow of spurious seeds.



- All the Joint Directors of Agriculture in the state are being continuously pursued to prosecute the accused in all the cases of substandard seed samples as per the procedure in time.
- A supply plan of about 46 lakh packets of Bt. cotton seed was kept ready to position in all districts for the year 2018-19 against an expected area of 5.50 Lakh Ha.
- All the Joint Directors of Agriculture in the state are instructed to create awareness on not to sale/cultivate the unapproved Herbicide Tolerant (HT) cotton through organizing meetings, distribution of pamphlets/posters and also through print and electronic media in 2018-19.
- The incidence of pink boll worm was kept at controlled levels due to precautionary and timely measures taken up by the department. Similar measures are also being implemented by the department during 2018-19.



The measures on Management of pink boll worm are as follows

1. Formation of State level and District Level Monitoring cum technical Committees
2. Adoption of districts by the major seed companies for creating awareness on pink boll worm management
3. Promotion of short to medium duration varieties in cotton
4. Encouraging early sowings and should be restricted to July 30th and termination of cotton crop by the end of december is recommended.
5. Creation of awareness among the farmers through department /universities / companies through print & electronic media besides departmental extension activities.
6. M/s MMBL, Hyderabad is entrusted with preparation of audio visual aids and TV ads for circulation to all companies and extension staff.
7. The companies were cautioned about the genetic purity of the seeds if any lapses on the part of the companies will be viewed seriously and stringent action will be initiated.
8. The literature provided along with the seed packets to create awareness on PBW should be uniform by all the stakeholders to avoid confusion.
9. The district level monitoring committees will meet fortnightly for monitoring of PBW incidence , intensity and to take timely measures.
10. Supply of Pheromones and Light traps by department on subsidy rates for vigilance and control of adult moths.
11. Contingency cropping programme was planned in case of delayed monsoons with alternate crops and with different sowing dates .
12. Promotion of refugia and gin and field sanitation
13. Reduction of cotton area under rain fed conditions on light red soils.
14. Promotion of intercropping with pulses.
15. Need based PP measures beyond ETL levels.

Annexure

Month-wise Season-wise Targets for drawal of Seeds samples in Andhra Pradesh for the year 2018-19

S. No.	District	Annual Target			Kharif Target						Rabi Target			Grand Total
		Other Crops	Chillies	Cotton	Total Target	May	June	July	August	Total	Sept	Oct	Total	
1	Srikakulam	250	0	10	260	70	90	40	20	220	30	10	40	260
2	Vizianagaram	280	0	10	290	80	95	45	20	240	38	12	50	290
3	Visakhapatnam	265	0	5	270	70	95	40	20	225	33	12	45	270
4	East Godavari	640	10	20	670	135	195	120	70	520	100	50	150	670
5	West Godavari	490	0	20	510	145	160	65	45	415	59	36	95	510
6	Krishna	530	50	70	650	155	193	100	58	506	94	50	144	650
7	Guntur	675	250	435	1360	380	378	204	155	1117	173	70	243	1360
8	Prakasham	320	100	135	555	123	80	72	180	455	70	30	100	555
9	S.P.S.R.Nellore	320	0	20	340	50	10	60	50	170	80	90	170	340
10	Kurnool	890	50	345	1285	372	267	215	165	1019	170	96	266	1285
11	Ananthapuramu	830	0	88	918	290	194	145	105	734	130	54	184	918
12	Y.S.R.Kadapa	360	15	32	407	123	100	70	30	323	60	24	84	407
13	Chittoor	340	10	0	350	112	84	56	28	280	49	21	70	350
GRAND TOTAL		6190	485	1190	7865	2105	1941	1232	946	6224	1086	555	1641	7865

