

**IMPACT OF ESTABLISHMENT OF SEED CENTRE
ON SEED PRODUCTION IN TNAU**



**SEED CENTRE
TAMILNADU AGRICULTURAL UNIVERSITY
COIMBATORE - 641 003**

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Formation of Seed Centre

Tamil Nadu Agricultural University, Coimbatore has taken a major initiative to expand exponentially the seed activities to reach the farmers of the State. During, the first meeting of ICAR - Mega Project on “Seed production in agricultural crops and fisheries” held at New Delhi on 27-28 June, 2006 it was insisted on adoption of a “Single Window System” for seed programme in the university with a senior level scientist nominated as Special Officer (Seeds) under the direct control of Vice-Chancellor. Based on this guideline, the SEED CENTRE was established on 27.10.2006 in Tamil Nadu Agricultural University. Then, the Seed Centre was upgraded into Directorate of Seed Centre and Special Officer (Seeds) was re-designated as Director from 01.07.2018. The Director, Seed Centre was vested with the responsibility of managing and strengthening the seed production chain of the TNAU released varieties to cater the needs of the farmers and to ensure food security of the State.

I. Strengthening of seed production activities

After establishment of Seed Centre, the following seed production activities were structured in TNAU.

S. No.	Before establishment of Seed Centre	After establishment of Seed Centre
1.	No official and systematic monitoring of seed production and distribution activities of different Research Stations of TNAU.	Seed Centre acts as Nodal Centre to follow the “Single Window System” to monitor the seed production and distribution in TNAU as per the standard procedures in seed production and quality regulation aspects.
2.	The seeds supplied were not processed scientifically due to lack of adequate processing facilities.	Infrastructure facilities were created/ strengthened under ICAR-Mega Seed Project. The seeds are being processed scientifically in the approved processing units and the seeds with high quality as per IMSCS are being supplied to the stakeholders and farmers.
3.	No uniform sale price for seeds among different centres of TNAU.	Uniform sale prices are being fixed for different classes of seeds and adopted by all the TNAU seed production centres uniformly.
4.	No quality control systems were exist.	The quality control systems viz., seed quality testing and grow out test for varietal purity are being followed as per the Seeds Act and Seed Rules.

S. No.	Before establishment of Seed Centre	After establishment of Seed Centre
5.	No fund generation and infrastructural facilities for seed production centres.	Funds from various agencies were obtained and invested in different seed production centres of TNAU for creation of infrastructural facilities for seed production and quality control. A total budget of Rs. 15.0 crores have been obtained for this purpose and invested in different seed production centres.
6.	No coordination with the State Department of Agriculture for marketing and distribution of seeds.	Seed Centre is liaising with line departments in receiving indents, fixing uniform sale price and seed quality monitoring etc.

II. Centre-wise allocation of ICAR - Mega Seed Project Budget

S. No.	Name of the Centre	Funds allotted (Rs. in lakhs)
1.	TNAU - Coimbatore	153.26
2.	ARS, Bhavanisagar	118.16
3.	AC & RI , Madurai	108.89
4.	ARS, Vaigaidam	47.73
5.	HC & RI, Periyakulam	20.38
6.	Other Seed Production centers	156.58
	Total	605.00

III. Infrastructural facilities created

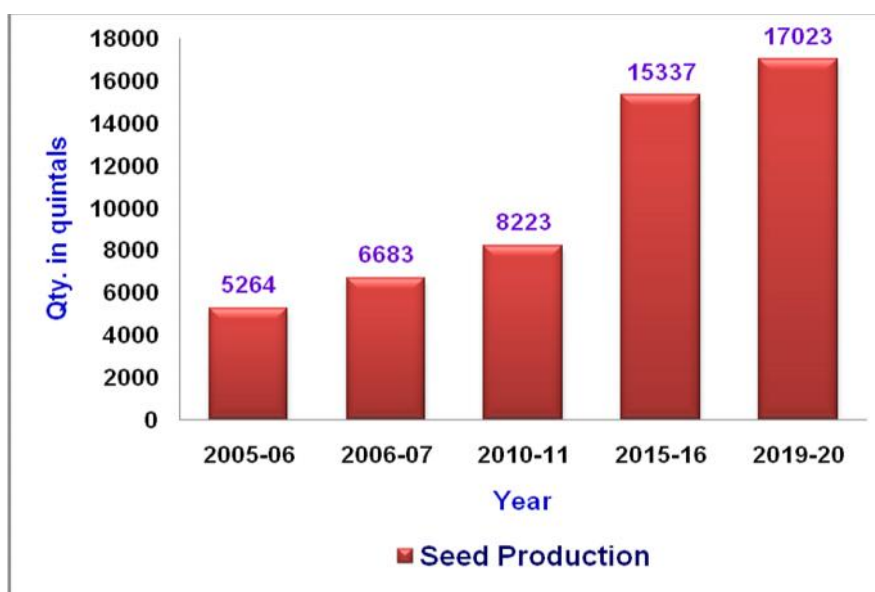
- Farm developments, farm roads, farm fencing etc.
- Seed production and processing facilities viz., green house, shade net, thrashing yard, seed storage godowns, seed processing complex etc.,
- Strengthening irrigation sources including digging bore wells, underground water pipelines, surface level storage tanks, sprinkler irrigation, power motors etc.
- Farm machineries and implements viz., tractors, power tillers, sprayers, combined harvesters, multi crop threshers, multi-utility field vehicles, transporters and other farm implements.

IV. Schemes obtained

S. No.	Name of the Scheme	Budget (Rs. in lakhs)
1.	ICAR - Mega Seed Project	880.90
2.	GOI - National Horticulture Mission	120.00
3.	GOI - Seed Village Scheme	81.90
4.	ICAR - Tribal Sub Plan Schemes	60.00
5.	GOI - NADP Schemes	966.55
6.	ICAR - Seed Hub (Pulses, Oilseeds and Millets)	1400.00
7.	GOI - Central Sector Scheme (Infrastructural facilities)	174.00
8.	GoT - Part II Plan Scheme	42.59
9.	National Mission on Agricultural Extension & Technology	29.80
10.	GOI - Centre of Excellence	70.00
	Total	3825.74 (38.25 crores)

V. Achievements in Seed Production

S. No.	Class of seeds	Quantity produced (q)				
		Before establishment of Seed Centre	After establishment of Seed Centre			
		2005-06	2006-07	2010-11	2015-16	2019-20
1.	Foundation seeds	-	1411	3030	4261	5835
2.	Certified and TFL seeds	5264	5272	5193	11076	11188
	Total	5,264	6,683	8,223	15,337	17,023



VI. Impact of quality seeds supplied by Seed Centre from inception (2006-07 to 2019-20)

S. No.	Crops	Quantity of seed supplied (q)	Area covered (ha)	Total yield (q)	15% increased yield (q)	Increased profit (Rs. in lakhs)
1	Paddy	118923	396410	19820500	2973075	41623.05
2	Millets	2553	25530	1021200	153180	6127.20
3	Pulses	8376	41880	251280	37692	2261.52
4	Oilseeds	2548	2548	50960	7644	573.30
5	Cotton	155	2214	44280	6642	265.68
6	Forage Crops	618	6180	123600	18540	92.70
7	Green manure	3855	19275	385500	57825	289.13
8	Vegetable Crops	1026	128250	25650000	3847500	76950.00
	Total	1,38,054	6,22,287	4,73,47,320	71,02,098	1,28,182.58

- A total quantity of **1,38,054 q** of quality seeds were produced and supplied by TNAU from 2006-07 to 2019-20 (13 years) to cover an **area of 6,22,287 ha** under different crops. Due to the supply of quality seeds, the farmers of Tamil Nadu might have obtained an **additional yield of about 71,02,098 q** by which they might have realized the **monitory benefit of Rs.1,28,183 lakhs (Rs.1,281.83 crores) as additional income** over the period of 13 years from the inception of Seed Centre.

VII. Impact of quality seeds supplied by Seed Centre during 2019-2020

S. No.	Crops	Quantity of seed supplied (q)	Area covered (ha)	Total yield (q)	15% increased yield (q)	Increased profit (Rs. in lakhs)
1	Paddy	14415	48050	2402500	360375	5045.25
2	Millets	339	3390	135600	20340	813.60
3	Pulses	1152	5760	34560	5184	311.04
4	Oilseeds	903	903	18060	2709	203.18
5	Cotton	13	186	3720	558	22.32
6	Forage Crops	38	380	7600	1140	5.70
7	Green manure	74	370	7400	1110	5.55
8	Vegetable Crops	90	11250	2250000	337500	6750.00
	Total	17,024	70,289	48,59,440	7,28,916	13,156.64

- A total quantity of **17,024 q** of quality seeds were produced and supplied by TNAU during 2019-20 to cover an **area of 70,289 ha** under different crops. Due to the supply of quality seeds, the farmers of Tamil Nadu might have obtained an **additional yield of about 7,28,916 q** by which they might have realized the **monitory benefit of Rs.13,156.6 lakhs (Rs.131.56 crores) as additional income** during the year 2019-20 alone.