

Oilseeds Seed Hub

Creation of Seed-Hubs for Enhancing Quality Seeds Availability of Oilseed Crops

Oilseeds Division, NFSM, Department of Agriculture, Cooperation & Farmers Welfare,
MoA, Govt of India

Period: 2018-19 to 2019-20

Report on IIOR - Oilseeds Seed Hubs

[Sunflower, Safflower, Sesame, Niger, Castor and Linseed]

Crop	Number of seed hubs	Physical target of quality seed production (q)			Total budget (Rs. in lakhs)
		2018-19	2019-20	Total	
Castor	2	2100	2000	4100	750
Sunflower	2	1200	1650	2850	
Sesame	1	800	1000	1800	
Safflower	1	800	1000	1800	
Linseed	3	1400	1400	2800	500
Niger	3	65	210	275	200
Total	12	6365	7260	13625	1450

Total amount released to seed hubs (2018-19) (Rs. in lakh)

Crop	Revolving fund	Infrastructure	Total
Castor	155	70	225
Sunflower	65	35	100
Safflower	80	25	105
Sesame	80	50	130
Linseed	150	100	250
Niger	105	30	135
Total	635	415	945

Crop-wise and state-wise seed hubs

Crop	State	Seed hubs
Castor	Gujarat	S.K. Nagar, SDAU
	Tamil Nadu	Yethapur, TNAU
	Telangana	IIOR, Hyderabad*
Sunflower	Telangana	ICAR-IIOR [#]
	West Bengal	RA KVK, Nimpith [#]
	Karnataka	UAS, Bengaluru*
Safflower	Maharashtra	Parbhani, VNMKV
	Maharashtra	Solapur, MPKV*
	Telangana	IIOR, Hyderabad**
Sesame	Rajasthan	ARS, Sumeerpur, AU
	West Bengal	RA KVK, Nimpith
Niger	Madhya Pradesh	Chindwara, JNKVV
	Odisha	Semiliguda, OUAT
	Karnataka	Dharwad, UAS
Linseed	Madhya Pradesh	Sagar, JNKVV
	Bihar	Bikramganj, BAU
	Odisha	Keonjhar, OUAT

*Solapur as additional seed hub within the sanctioned budget for safflower

**In place of sunflower, safflower crop was allotted to IIOR, Hyderabad for 2019-20

[#]Sunflower production shifted from Latur to Nimpith

[#]Sunflower production shifted from IIOR Hyderabad to UAS, Bengaluru

Chronology of Implementation

• Plan of Action Workshop	10-7-2018
• Review workshop	11-1-2019
• Annual Review workshop	19-20 July 2019

Physical and Financial Progress

Sunflower

Name of Seed Hub Centre	Seed Production (q)						
	Name of the Variety	2018-19		2019-20*		Total	
		Target (q)	Achievement (q)	Target (q)	Achievement (q)	Target (q)	Achievement (q)
Ramkrishna Ashram KVK, (Sun & Ses)	LFSH-171 (2018)	0	0	750	750	750	750
	Total	0	0	750	750	750	750
ICAR – IIOR, Hyderabad (Sun/Saff & Castor)	DRSH-1 (2006)	100	93	-	50	100	143
	Total	100	93	0	50	100	143
UAS, Bengaluru	KBSH-41 (2005)	-	323	100	130	100	453
	KBSH-44 (2003)	-	193	100	231	100	424
	KBSH-53 (2009)	-	313	100	167	100	480
	KBSH-78 (2018)	-	-	200	4	200	4
	Total	0	829	500	532	500	1361
VNMKV, Parbhani ORS, Latur (Sun & saf)	LRSB-171 (2018)	600	54	-	-	-	54
	Total	600	54	-	-	600	54
	GRAND TOTAL	700	976	1250	2082	1950	2308

Name of Seed Hub Centre	Infrastructure Fund (Rs. Lakhs)			Revolving fund (Rs. lakhs)		
	Allocation	Received	Expenditure	Allocation	Received	Expenditure
Ramkrishna Ashram KVK	Shown under Sesame Seed hub					
ICAR – IIOR, Hyderabad	Shown under Castor Seed hub					
VNMKV, Parbhani)	Latur centre is closed for sunflower seed production for want of basic irrigation facilities and shifted to Nimpith					



Sunflower hybrid seed production of DRSH-1 at IIOR, Hyderabad



Safflower

Name of Seed Hub Centre	Seed Production (q)						
	Name of the Variety	2018-19		2019-20*		Total	
		Target (q)	Achievement (q)	Target (q)	Achievement (q)	Target (q)	Achievement (q)
VNMKV, Parbhani	PBNS-12 (2007)	300	564	400	400	700	964
	PBNS-86 (2018)	100	126	900	900	1000	1026
	Total	400	690	1300	1300	1700	1990
MPKV, Rahuri, Solapur	SSF-708 (2012)	200	45	1000	1200	1200	1245
	Total	200	45	1000	1200	1200	1245
IIOR, Hyderabad	ISF-764 (2019)	-	60	250	300	250	300
	Total	-	60	250	300	250	360
	GRAND TOTAL	600	795	2550	2800	3150	3595

Name of Seed Hub Centre	Infrastructure Fund (Rs. Lakhs)			Revolving fund (Rs. lakhs)		
	Allocation	Received	Expenditure	Allocation	Received	Expenditure
VNMKV, Parbhani	25	25	25	50	50	7.81
MPKV, Rahuri, Solapur	25	25	-	50	25	3.60
GRAND TOTAL	50	50	25	100	75	11.41

PBNS-12 (Parbnani kusum) at VNMKV Parbhani



PBNS-86 (Purna)



Sesame

Name of Seed Hub Centre	Seed Production (q)						
	Name of the Variety	2018-19		2019-20*		Total	
		Target (q)	Achievement (q)	Target (q)	Achievement (q)	Target (q)	Achievement (q)
Ramkrishna Ashram KVK, (Sun & Ses)	Savitri (2009)	400	200	-	-	400	200
	CUMS-17 (2019)	-	-	500	500	500	500
	Total	400	200	500	500	900	700
ARS, Sumerpur, (AU, Jodhpur) (Cas & Ses)	RT 346	200	0	300	-	500	-
	RT 351	200	107	200	150	400	150
	Total	400	107	500	150	900	257
GRAND TOTAL	800	307	1000	650	1800	957	

Name of Seed Hub Centre	Infrastructure fund (Rs. lakhs)			Revolving Fund (in Rs. Lakhs)		
	Allocation	Received	Expenditure	Allocation	Received	Expenditure
Ramkrishna Ashram KVK, (Sunflower & Sesame)	50.0	50.0	50.0	100	60.0	2.3
ARS, Sumerpur, (AU, Jodhpur) (Cas & Ses)	25.0	25.0	13.0	50	40.0	8.14
TOTAL	75.0	75.0	63.0	150	100.0	10.34



Ramkrishna Ashram KVK, Nimpith (Sunflower & Sesame)



Niger

Name of Seed Hub Centre	Seed Production (q)						
	Name of the Variety	2018-19		2019-20*		Total	
		Target (q)	Achievement (q)	Target (q)	Achievement (q)	Target (q)	Achievement (q)
JNKVV, Chindwara (MP)	JNS-28 (2016)	10	6.82	25	35	45	42
	JNS-30 (2016)	10	-				
	Total	20	6.82	25	35	45	42
UAS, Dharwad (KK)	DNS-4 (2012)	15	6.0	60	75	75	
	Total	15	6.0	60	75	75	81
RRTTS (OUAT), Semiliguda (OD)	Utkal Niger- 150 (2009)	30	25	35	65	65	90
	Total	30	25	35	65	65	90
	GRAND TOTAL	65	37.82	120	175	205	212.82

Name of Seed Hub Centre	Infrastructure Fund (Rs. Lakhs)			Revolving fund (Rs. lakhs)		
	Allocation	Received	Expenditure	Allocation	Received	Expenditure
JNKVV, Chindwara (MP)	20	20	0	50	25	0.37
UAS, Dharwad (KK)	20	20	0	40	25	0
RRTTS (OUAT), Semiliguda (OD)	20	20	0	50	25	0.107
Total	60	60		140	75	0.477

Niger Seed Hub Programme at Similiguda and Chhindwara



Linseed

Name of Seed Hub Centre	Seed Production (q)						
	Name of the Variety	2018-19		2019-20*		Total	
		Target (q)	Achievement (q)	Target (q)	Achievement (q)	Target (q)	Achievement (q)
RARS, SAGAR (JNKVV), Jabalpur	JLS-73 (2011)	600	641	200	200	1000	841
	JLS-66 (2018)	300	211	200	200	800	411
	Total	900	852 (400q)	400	400	1300	1252
RRTTS, Keonjhar (OUAT), Bhubaneswar	Arpita (2016)	200	5	200		400	
	KBA-4 (2018)	200	24	200		400	
	Total	400	29	400	600	800	629
Bihar Agri Univ, Sabour, Bihar	RLC-148 (2010)	200	20	200	400	400	420
	Sabour Tisi-1 (2018)	200	20	200	200	400	220
	Total	400	40	400	600	800	640
	GRAND TOTAL	1700	921	1200	1600	2900	2521

Name of Seed Hub Centre	Infrastructure Fund (Rs. Lakhs)			Revolving fund (Rs. lakhs)		
	Allocation	Received	Expenditure	Allocation	Received	Expenditure
RARS, SAGAR (JNKVV), Jabalpur	50	50	17.06	100	65	35
RRTTS, Keonjhar (OUAT), Bhubaneswar	50	50	-	100	25	0.4
Bihar Agri Univ, Sabour, Bihar	50	50	15.95	100	25	1.44
TOTAL	150	150	33.01	300	115	36.84



Performance of Linseed Variety JLS 73



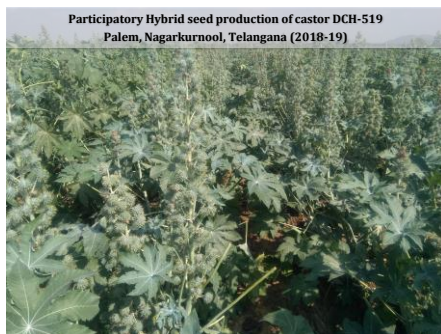
Performance of Linseed Variety JLS 66



Castor

Name of Seed Hub Centre	Name of the Variety	Seed Production (q)					
		2018-19		2019-20*		Total	
		Target (q)	Achievement (q)	Target (q)	Achievement (q)	Target (q)	Achievement (q)
ICAR – IIOR, Hyderabad (Cas & Sun)	DCH-519 (2006)	650	750	-	-	650	750
	DCH-177 (2000)	650	350	-	-	650	350
	ICH-66 (2019)	-	20	1300	800	1300	800
	Total	1300	1120	1300 (260q)	800	2600	1900
ARS, Yethapur	YRCH-1 (2010)	200	250	100	100	300	350
	YRCH-2 (2017)	200	50	400	400	600	550
	Total	400	300	500	500	900	900
SK Nagar, SDAU	GCH-7 (2018)	400	0	400	400	800	400
	GCH-8 (2018)	-	-	500	400	500	400
	Total	400	0	900	800	1300	800
ARS, Sumerpur, (AU, Jodhpur, RJ) (Cas & Ses)	GCH-7 (2018)	400	350	-	-	400	350
	GCH-8 (2018)	-	70	-	-	-	70
	Total	400	420	-	-	400	420
GRAND TOTAL		2500	1840	2600	2200	5100	4020

Name of Seed Hub Centre	Infrastructure Fund (Rs. Lakhs)			Revolving fund (Rs. lakhs)		
	Allocation	Received	Expenditure	Allocation	Received	Expenditure
ICAR – IIOR, Hyderabad	50	50	3.32	100	100	44.09
ARS, Yethapur	50	50	49.11	100	60	20.42
SK Nagar, SDAU	50	50	0	40	40	0
ARS, Sumerpur, (AU, Jodhpur)	Shown under Sesame Seed hub					
Total	150	150	52.43	240	200	64.51



Overall Achievement (2018-20)

Crop	Target (q) (2018-19 to 2019-20)	Total Production* (q) (2018-19 to 2019-20)
Castor	5100	4020 (79%)
Sunflower	1950	2308 (118%)
Safflower	3150	3595 (114%)
Sesame	1800	957 (53%)
Linseed	2900	2516 (87%)
Niger	205	213 (104%)
Total	15105	13609 (90%)

*including expected of 2019-20

(Figures in parenthesis are percent of targeted production)

Constraints and suggestions

- **Shortage of foundation seed** in first year especially of new varieties to plan large scale production targets (*few new varieties have been identified and notification pending*)
- **Further time lag for parental lines production** for hybrids and season-boundness
- **Extreme weather** conditions (Drought for safflower in Maharashtra; cyclone 'Fani' in Odisha for niger and linseed)
- **Differential infrastructure** requirement and time lag in stages of procurement and construction
- **Challenges in procurement** : Market rate is higher than seed procurement price Especially for linseed, safflower and sesame
- Marketing of large targeted quantity of seed produced. **Non-lifting** especially in Linseed and Castor
- **Budget utilization need to extend beyond March 2020** as per the crop/s harvest (especially *rabi* crops) and quality/certification testing and Completion of infrastructure at various stages of implementation.

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