

Internalizing the Seed Chain in Groundnut

Community Managed Seed Systems program, Anantapur District, Andhra Pradesh

A pilot initiative named “Community Managed Seed Systems” is implemented in Anantapuramu district since Rabi, 2011 by the Department of Agriculture in partnership with the NGOs and farmers’ groups. The program envisages to decentralise production and distribution of groundnut seed production within a cluster of villages integrating Seed Village Program and seed subsidies. It is intended to achieve local self-sufficiency in seeds.

CMSS Process:

As a part of the program groundnut seed produced under the Seed Village Program is procured and processed by farmers’ organizations and distributed locally at full cost to the farmers eligible for seed subsidy.

After completion of the distribution, the list of farmers duly certified by MAOs and ADAs along with the savings Bank Account was furnished to the JDA, Anantapur and subsidy amount was directly transferred to the beneficiary accounts by the JDA, Anantapur district. Subsidy is paid the farmer after verification of sowing the crop by the Agriculture officer.

In addition to making the quality seed available to the farmer well before the season, the process removes the need for transportation, distribution and handling of seed by external agencies, saving substantial budgets for the Department. The value addition in seed production also, accrues to the local farmers. During the last few years of its operation, Department of Agriculture is able to provide seed at the door-step of the farmers at much lower cost.

Self-sufficiency in foundation seed

As the part of CMSS pilot, Department of Agriculture is supplying the foundation seed to farmers on subsidy under Seed Village Program; notified agencies are supplying the seed

to DoA based on the indent. Many a times, farmers are not happy with quality of seed and DoA officials are sending the loads back because of low quality; with all these reasons, getting quality seed is becoming difficult.

Government is investing huge money on ANGRAU to produce breeder seed, but quality seed is not coming into seed chain and investment made by Govt is not of much use.

Farmers are demanding good quality foundation & certified seed and it has become a serious concern for everyone. In series of meetings with Commissioner and Spl CS, Agriculture along ANGRAU and APSSCA, its came out very clearly that there is a need to internalize the seed chain within CMSS i.e breeder seed (kharif)>>>foundation seed (Rabi)>>>certified seed

Breeder is will be given to farmers in kharif for multiplication and foundation seed can be linked to farmers under Seed village program in Rabi; certified seed will be linked to the farmers in kharif under seed subsidy program. ANGRAU will supply the breeder seed to farmers and APCSSCA will do certification.

Breeder seed requirement for three years

Breeder seed Q/Ac – 8

Foundation seed Q/Ac – 6.5

Target Acres	2015		2016		2017		2018	
	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif	
Breeder Seed (purchased)	2885		5769		6731			
Foundation Seed	23077		46154		53846			
		23077		46154		53846		
Certified Seed			150000		300000		350000	

Breeder is requirement for this year is 2885Q, learnt from yesterday’s discussion this quantity is not available with ANGRAU; At least 1280Q of breeder seed is required for Kharif, 2015(. Details are annexed)

2015	Type of seed	Target (Q)	K-9 (Q)	Dharani (Q)	Harithaandhra (Q)	Ananta Jyothi (Q)
2015, Kharif (early)	Breeder seed (Q)	1280 out of 2885	930	150	150	50

Breeder seed cost Rs/Q – 15000
 Foundation seed cost Rs/Q (assuming) – 8000
 Certified seed cost Rs/Q (assumption) - 6000

Budget (lakhs)	2015		2016		2017		2018
	Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	Kharif
Breeder Seed (Full cost)	433		865		1010		
with 50% subsidy	216		433		505		
Incidental charges (excluding certification fee)							
Foundation Seed (Full cost)		1846		3692		4308	
with 50% subsidy		923		1846			
Incidental charges (excluding certification fee)		69		138		162	
Certified Seed (full cost)			9000		18000		21000
with 30% subsidy			2700		5400		6300
Incidental charges			450		900		1050

Main Partners in the Pilot Program

1. **Farmers** as members of farmers' organisations and individuals. This involves both seed producing and seed consuming farmers.
2. **Facilitating Organisations** :Organisations with capacity to organise farmers, capacitate them to establish and manage their seed systems and provide linkages with Department of Agriculture, Agriculture Research and other institutions.

3. **WASSAN:**To conceptualize and facilitate the collaboration, capacity building, monitoring and documentation support and policy development.
4. **Department of Agriculture:** providing financial, material and technical support, monitoring and evaluation.
5. **ANGR Agriculture University** through the RARS, Kadiri and other institutions in Anantapur provides the technical backstopping

Benefits:

1. Seed chain will be internalized to get the quality seed and dependency on external agencies will be reduced

Seed Producers:

2. Seed Production can become a source for income generating activity for farmers as s/he is getting more price than market
3. Knowledge of the farmers on seed quality and production techniques can be built through trainings
4. Seed producer is able to get the

immediately after sale as consumer/purchaser is paying on spot

Seed Consumers /Purchaser:

5. No need waiting long queue, farmers are getting quality seed timely at village
6. Purchaser/consumer has the choice to chose the produce based on quality
7. Subsidy will be transferred to respective bank accounts directly, no need to go to banks and offices to get subsidy
8. Consumers/purchasers are getting good yield with quality seed (10% incremental yield)

Government and DoA:

9. Expenditure on seed procurement and processing costs are coming down i.e Rs.700 to 1100 per Q
10. Dependency of seed agencies and interference of middlemen can be minimized or eliminated

<i>Savings to the Government in CMSS program in kharif, 2014</i>		
Details	Through CMSS	Through Govt. Seed Distribution system
Seed Cost (Rs/Cost)	5200	6100
Farmer contribution / Non-subsidy (Rs/Q)	4400	4400
Subsidy (Rs/Q)	800	1700
Difference (Rs/Q)		900
Total quantity of seed distributed (Q)		12,847
Total value (Rs)		6,68,02,320
Saving to the Govt (Rs)		1,15,6,940

11. Department officials will come out from logistics management and distribution, can focus on technical aspects

Financial Benefits in a year (Karif, 2015 to Kharif, 2016)

S.No	Particulars	(In Lakhs)
1	Savings to Govt - on foundation seed distribution Rabi, 2015 (Rs.800/Q)	231
2	Savings to Govt - on certified seed distribution in 2016 (Rs. 800 /Q)	1200
3	Value of Incremental yields in 150000ac (15% /ac) i.e 0.90Q	6075
4	Seed processing wages will be internalised	
	Total(in Lakhs)	7506

Annexure 1: Mandal, NGO wise Breeder Seed Requirement for Kharif, 2015

Sl. No.	Name of the Division	Name of the Mandal	Name of the NGO	Name of the NGOs Heads	Mobile no	CMSS Contact person	Cell no	Seed Quantity in quintals
1	2	3	4	6	7	8	9	
1	Kadiri	Kadiri	REDS	C.Banuja	9440017188	Yellappa	9989873358	30
		Nallamada	REDS,jj	C.Banuja,Balaram	9440017188	Obulappa	9618082208	40
		Talapula	KRANTHI	Rami reddy	9440386757	Rami reddy	9440386757	25
		Tanakal	Jana Jagruthi	Balaram	9440224274	Garudappa	9177871922	30
		Amadagur	REDS	C.Banuja	9440017188	Ramana Naik	9000796644	50
		Nallacheruvu	Jana Jeevana RMG	Ramakrishana	9618284868	Ramakrishana	9491873586	25
		Gandlapenta	Annadata RMG,JJ	C.Sidda reddy	9490654792	C.Sidda reddy	9490654792	35
		O.D. Cheruvu	REDS	C.Banuja	9440017188	Ramakrishana	9000393386	40
		Mudigubba	Haritha	Veeranjineyulu	9440090113	Veeranjineyulu	9440090113	30
2	Dharmavaram	Bathalapalli	PASS	Ramappa	9441165281	Ramappa	9441165281	30
			Jeevani	Lakshimi Kanthamma	9492155491	Sankar	9177174511	
		Tadimarri	MGYS	Hanumanthu reddy	9441869632	Hanumanthu reddy	9441869632	50
		Kanaganapalli	MGYS,PASS	Hanumanthu reddy	9441869632	Hanumanthu reddy	9441869632	25
3	Hindupur	Gorantla	IAABWS	Manjunath	9440566121	B.kesava	9177526420	40
4	Anantapur	Anantapur	REDS	C.Banuja	9440017188	Gopal reddy	9494930924	50
		Rapthadu	AF Eecology centar	Yalamandareddy	9177011400	Rudraih	9493832336	25
		Garladinne	RIDS	Kristappa	9440528626	Baba budden sab	8897844525	50
		Atmakur	REDS	C.Banuja	9440017188		9985513351	50
		Kudair	RIDS	Kristappa	9440528626	Baba budden sab	8897844525	80
5	Gooty	Gotty	HANDS	M.Nrayana Swami	9393077222	Ramakrishana	8899048514	60
		Pamidi	HANDS	M.Nrayana Swami	9393077222	Murali	9154116566	50

		Yadiki	HANDS	M.Nrayana Swami	9393077222			45
		Singanamala	RIDS	Kristappa	9440528626	Baba budden sab	8897844525	85
6	Uravakonda	Uravakonda	Radha Mahila Mandali	Thulasi bai	9014131466	Dhanunjaya	9959442683	30
		Vajarakarur	HANDS	M.Nrayana Swami	9393077222			45
		Guntakal	HANDS	M.Nrayana Swami	9393077222	Nagalakshimi	7306874999	60
10	Penukonda	Penukonda	HANDS	M.Nrayana Swami	9393077222	Narayana	9000514107	50
		Roddam	Kreds	B.Kristappa	9440500000	murali	9849869856	50
		Puttaparthi	IAABWS,SRIRED	Manjunath,Sreeredy	9440566121, 9393077333	C.Rameeja	9676510305	45
		K.Chervu	PRDS	Prabhakar reddy	9441869714	Prabhakar reddy	9441869714	30
		Bukkapatnam	IAABWS	Manjunath	9440566121	G.Aswani kumar	7095675696	25
		Total						
11	Madakasira	Madakasira	FORD	Badreesh	9492963506	Ram bhupal reddy		
		Amarapuram	FORD	Badreesh	9492963506			
		Gudibanda	FORD	Badreesh	9492963506			
		Rolla	FORD	Badreesh	9492963506			
		Agali	FORD	Badreesh	9492963506			9491866280