

Status of current project running at KVK-Buldhana

✚ Seed Hubs Pulses Project:

KVK Scientists involved : PC, KVK, Buldhana
 SMS (Agril. Engg.) , KVK, Buldhana
 SMS (Agronomy), KVK, Buldhana
 Farm manager , KVK, Buldhana

Quality seed production is one of the most critical components for ensuring quality seed supply at the doorstep of farmers. Provision of quality seed is an important step in enhancing the yield and production of pulses. Replacing old varieties from seed chain and farmers' fields remains a major concern among research managers, extension workers and other stakeholders. Realizing importance of quality seed in enhancing productivity of pulses, Department of Agriculture, cooperative and farmer welfare, GOI, has taken initiative to ensure quality seed availability locally through creation of seed hubs.

In 2016-17, KrishiVigyan Kendra Buldhana received the target of production of *Kharif*(Green gram and Black gram) as well as *rabi*(Chickpea) pulses of certified seed program. This project has a provision of separate grant of 50 lakh for creating infrastructures (seed processing and storage facility). The work of seed processing unit almost Completed by KVK Buldhana and the process of purchasing of Seed Processing Plant is in process.

Technical progress of seed hubs

Season	Variety/Year of release	Target of quality / Certified seed production (Qtls)	Area sown (ha)	Actual quantity of quality/Certified seed produced (Qt)
2016-17				
Kharif (Mung)	-	150.00	-	-
Kharif (Udid)	-	100.00	-	-
Rabi (Bengalgram)	JAKI-9218 (2007)	300.00	18.20	156.76
Total		550.00	18.20	156.76
2017-18				
Kharif (Mung)	BM-2003-2 (2010)	200.00	5.00	43.80
Kharif (Udid)	AKU-15 (2007)	150.00	15.00	81.40
Rabi (Bengalgram)	JAKI-9218 (2007)	350.00	19.00	208.00
Total		700.00	39.00	333.20
2018-19				
Kharif (Mung)	BM-2003-2 (2012)	300.00	15.00	33.37
	BM-2002-1 (2005)		10.00	10.35

	Utkarsha (2016)		10	8.63
Kharif (Udid)	AKU-15 (2007)	200.00	19.00	44.26
	AKU -10-1(2015)		15.00	23.10
Rabi (Bengalgram)	Rajvijay - 203 (2012)	500.00	103.6	412.85
	PhuleVikram (2016)		2.0	20.00
Total		1000.00	174.6	552.56
2019-20				
Kharif (Mung)	BM-2003-2 (2012)	300.00	34.00	60.50
	Utkarsha (2016)		9.00	27.00
Kharif (Udid)	AKU -10-1 (2015)	200.00	20.00	75.96
Rabi (Bengalgram)	PhuleVikram (2016)	500.00	5.0	52.82
	PDKV Kanchan (2016)		35.0	272
Total		1000.00	103.00	488.28
2020-21				
Kharif (Mung)	BM-2003-2 (2012)	300.00	10.00	34.51
Kharif (Udid)	AKU -10-1 (2015)	200.00	15.00	95.00
Rabi (Bengalgram)	Rajvijay - 203 (2012)	500.00	30.00	223.00
	PhuleVikram (2016)		2.00	12.33
Total		1000.00	57.00	364.84

Glimpses of seed hubs (Field)



Dr. R. P. Singh, Director
Directorate Of cotton Development,
GOI, Nagpur visited KVK Buldhana Seed
production plot



Dr.SukumarMandi, Joint Director
Directorate Of cotton Development, GOI,
Nagpurvisited KVK Buldhana Seed
production plot

✚ Cluster frontline demonstration :

KVK Scientists involved : SMS (Agronomy), KVK, Buldhana
 SMS (Agril. Engg.) , KVK, Buldhana
 PC, KVK, Buldhana

Cluster front line demonstrations (CFLDs) is a novel approach to provide a direct interface between researcher and farmers for the transfer of technologies developed by them and to get direct feedback from farming community. KVK Buldhana started the Cluster frontline demonstration programme in *Rabi* 2015-16. KrishiVigyan Kendra, Buldhana has been conducted CFLDs on Oilseed crop soybean under the National Mission on Oilseeds and Oil Palm (NMOOP) scheme and CFLDs on *Kharif* pulses crop pigeonpea and *rabi* pulses crop chickpea under the National Food security mission.

Trends of demonstrations under CFLDs Pulses & Oilseed in Buldhanadistrict

Years	Pulses				Oilseed	
	<i>Kharif</i> : Pigeonpea		<i>Rabi</i> : Chickpea		Soybean	
	No. of Demos	Area (ha)	No. of Demos	Area (ha)	No. of Demos	Area (ha)
2015-16	-	-	37	14.80	-	-
2016-17	50	20	45	18	50	20
2017-18	50	20	50	20	50	20
2018-19	50	20	50	20	50	20
2019-20	50	20	50	20	-	-
2020-21	50	20	50	20	50	20
2021-22	50	20	25	10	25	10
Total	300	120	307	122.8	225	90



Major achievement :

KVK Buldhana published the three research papers on Cluster frontline demonstration on Oilseed (Soybean) and Pulses (Pigeonpea and Chickpea)

- Impact of cluster frontline demonstration on the yield and economics of chickpea in Buldhana District of Maharashtra, India.
- Impact of cluster frontline demonstration on Productivity of Soybean in Buldhana District of Maharashtra.
- Impact of cluster frontline demonstration of Pigeonpea cultivar PKV-TARA in Buldhana District of Maharashtra.

Future perspective :

- Preparation of folder on improved technology of Chickpea, Pigeonpea and soybean crops (rough outline of improved technology of Chickpea and Pigeonpea folder is already prepared)

✚ NICRA (National Innovations in Climate Resilient Agriculture) :

KVK Scientists involved : PC, KVK, Buldhana, PI, NICRA project

SMS (Agronomy), KVK, Buldhana , Co-PI, NICRA project

SMS (Agril. Engg.) , KVK, Buldhana, Co-PI, NICRA project

National Innovations in Climate Resilient Agriculture (NICRA) launched in February, 2011. The project aims to enhance resilience of Indian agriculture to climate change and climate vulnerability through strategic research and technology demonstration. The project is implemented in 100 districts in Phase-I. KVK Buldhana got NICRA project during 2015-2021 in Phase-II. Chautha village under Padali (Buldhana) Block selected purposively (KVK Adopted Village) for implementation of the NICRA project. Several climate resilient activities were done during 2015-2016 to 2020-21.

KVK Buldhana Started NICRA - TDC project interventions in Rabi 2015-16 at Girda Village and near adjoining village. In 2017-18 KVK adopted new village Chautha to scale up the NICRA intervention and recently from Rabi 2018 added new Atkal Village for spreading of climate resilient activities. 75% of Families covered in both the villages and 30% families are covered from new village. KVK Buldhana frame the climate resilient intervention by four different component (Natural resource management, Crop production, Livestock management and Capacity building) by identifying the major problems of NICRA village. Soybean is the Major crops in *Kharif* season and in Rabi Chickpea. In the year 2016-17, 2017-18 and 2018-19 Rainfall trend indicated that 20-25% deficit rainfall during rainy season with 10-15 days dry spell. In the year 2019-20 and 2020-21 was observed last week of September and first week of October one to three shower of rain affect the harvesting of Kharif crops and two to three day's heavy rainfall observed during the crop growing season. Mortality and morbidity losses due to biotic and a biotic stress fodder scarcity and poor access to live services are major livestock problem in this village. To achieve this climate vulnerability, KVK Buldhana demonstrated various intervention in the village.

Major achievement :

- Out of all successive interventions implemented by KVK Buldhana in NICRA Village 10 promising technologies along with economic impact and upscaling in district publish by CRIDA, Hyderabad on his book "Promising Climate Resilient Technologies for Maharashtra"
- KVK Buldhana published the two Folder under this project

1. Azolla production technology and
 2. Tricoderma : Beneficial Biofungicide
- Also published the extended summary of NICRA project in “5thInternational agronomy congress” entitle “**Impact of Climate Resilient Practices under NICRA Project in Buldhana District of Maharashtra**”

Future perspective :

- Preparation of Book entitle“Facilitate Agriculture with Interventions Resilience to climate change by KrishiVigyan Kendra, Buldhana”(rough outline of this book is already prepared and published as soon as possible)

