

**CLUSTER DEMONSTRATION  
ON  
GROUNDNUT, 2015-16**

# Cluster Demonstration on Groundnut var. Devi

- Crop & variety Groundnut, Devi
- Season & Year Rabi, 2015-16
- Village Prathamakhandi, Block- Rasulpur
- Area (ha) 30 ha No. of beneficiaries- 70
- Farming Situation Irrigated medium land

## Characteristics of the variety demonstrated :

- Duration- 95-105 days, Oil content 48%,
- Two seeded pods , dull white in colour, Potential yield -22-25Q/ha

## Technology demonstrated :

- Application of gypsum @250kg/ha
- Seed treatment with carboxin 2-3gm /kg of seeds
- Seed treatment with Rhizobium culture @ 20gm/kg of seeds
- Sowing of seed (Spacing = 25 cm x 10 cm)
- Application of NPK @ 20:40:40 kg/ha (Based on STCR)
- Inter culture operation manual weeding & hoeing after 25 DAS
- Need Based Irrigation
- Plant protection : Installation of yellow sticky trap @ 25/ha
- Application of indoxacarb @ 1 ml/lit



Field Preparation



Seed treatment with Carboxin



Inter culture operation in groundnut



Demonstration on groundnut



Field day on groundnut

Results	Yield (q/ha)	% change in Yield	Noof pods/plant	cost of cultivation (Rs/ha)	Avg. Gross return(Rs.)	Net Income (Rs./ha)	BC Ratio* *
FP	16.4	29.87	17	34800	65600	30800	1.88
RP	21.3		23	35500	85200	49700	2.4

Yield (q/ha)-

Demonstration: 21.3 qtl/ha

District average (previous year):- 16.04, State average( Previous year):- 18.21

# SUCCESS STORY

## **Name and address of farmer**

Name- Naresh Ku. Mohanty

Vill- Prathamakhandi

Block- Rasulpur

Dist- Jajpur



**Crop and variety-** Groundnut and Var. Devi

**Details of technology demonstrated-** Improved management practices of groundnut ar. Devi with application of gypsum @250 kg/ha , seed treatment with carboxin @2-3gm/kg of seed, seed inoculation with Rhizobium culture 20gm/kg seed along with soil test based recommended fertilizer

**Performance of technology vis-à-vis local check (increase in productivity and returns) -** Improved management practices of technology performed well with increased in yield by 29.6% over local check

## **Farmers feedback –**

- ❖ Farmers are satisfied with this variety Devi
- ❖ This technology improves pod yield significantly under irrigated condition
- ❖ Devi var. maturity 90-105 days in rabi and the pods are two seeded
- ❖ Soil application of gypsum 250kg/ha along with foliar spray of indoxacarb @ 1 ml/lit effectively minimizes foliar disease of groundnut and increase yield



**Sowing of groundnut seed var. Devi**



**Monitoring groundnut field By KVK Scientist**



**Field visit by Scientist**



**Field day on Groundnut**



**Storage of groundnut**



**Selling of groundnut**



**CLUSTER DEMONSTRATION  
ON  
MUSTARD, 2015-16**

# Cluster Demonstration on Mustard var. M-27

- Crop & variety Toria Var. M-27
- Season & Year Rabi, 2015-16
- Village Brundadeipur, Block - Dharmasala
- Area (ha) 10 ha No. of beneficiaries- 30
- Farming Situation Irrigated medium land

## Characteristics of the variety demonstrated :

- Duration- 75-80 days, Oil content 45%, medium height, profuse branching medium brown seed
- Potential yield -10-12 Q/ha

## Technology demonstrated :

- Application of Gypsum 250kg/ha
- Application of FYM 5qtl/ha, incubated with PSB 5kg/ha
- Seed treatment by carboxin 3gm /kg of seeds
- Sowing of seed (Spacing = 25 cm x 10 cm)
- Application of NPK @ 30:15:15 kg/ha (Based of STCR)
- Intercultural operation manual weeding & hoeing after 25 DAS
- Need Based Irrigation
- Plant protection : Spraying of Imidaclopride @ 6ml/15 lit of water
- Installation of yellow sticky trap, neem based pesticide & Application of indoxacarb @ 1 ml/lit

Results	Yield (q/ha)	% change in Yield	cost of cultivation (Rs/ha)	Avg. Gross return(Rs. )	Net Income (Rs./ha)	BC Ratio**
FP	5.4	29.6	17000	27000	10000	1.58
RP	7		20100	35000	14900	1.74

## Yield (q/ha)-

Demonstration: 7 qtl/ha

District average (previous year):- 3.7, State average( Previous year):- 3.75



Land Preparation



Demonstration Field



Field Visit of mustard



Flowering Stage



Field day on Mustard

# SUCCESS STORY



## **Name and address of farmer**

**Name-** Gauranga Sahoo

**Vill-** Brundadeipur

**Block-** Dharmasala

**Dist-** Jajpur

## **Details of technology demonstrated**

Improved management practices of Toria by line sowing with tractor drawn seed cum fertilizer drill with application of gypsum @ 250 kg/ha for neutralization of soil, application FYM 5 qtl/ha incubated with PSB 5 kg/ha along with soil test based recommended fertilizer.

## **Performance of technology:**

Improved management practices of technology performed well with increased in yield by 17.74% over local check

## **Farmers Feedback:-**

- ❖ Farmers are satisfied with var. M-27.
- ❖ The line sowing technology maintained spacing of the crop and improved yield significantly.
- ❖ Mustard var maturity: 75 days.
- ❖ Soil application of gypsum 250 kg/ha, Imidaclopride @ 6ml/15 lit of water
- ❖ Installation of yellow sticky trap, neem based pesticide & Application of indoxacarb @ 1 ml/lit minimized foliar disease of Toria and increased yield.



**Land preparation**



**Field visit of mustard**



**Flowering stage**



**Field day on mustard**