

Name of Technology: Integrated Crop Management in Black gram – CFLD

Season	Total Area(ha)	Number of farmers covered
Kharif 2018-19	10	25
Rabi 2018-19	10	25
Kharif 2019-20	10	25
Rabi-2019-20	10	25
Kharif - 2020	10	25

Detailed characteristics of the technology demonstrated

- YMV resistant variety – TBG 104 seed treatment with Imidacloprid 600 FS + Mancozeb
- Pre-emergence application of Pendimethalin @ 1.0l/ac
- Post emergence application of Imazethapyr @250 ml/ ac
- Foliar nutrition with 19:19:19 & 13:0:45
- Erection of Yellow and Blue sticky traps @ 20 /ac and Need based application of pesticides

Technical advantage

CFLD on Black gram plots recorded higher yields over farmers practice with a good net income due to adoption of Integrated Crop Management Technologies. Low incidence of YMV, Bud Necrosis and Leaf curl virus diseases were observed due to demonstration of resistant variety TBG – 104, seed treatment with *Imidachloprid 600 FS* and erection of Yellow & Blue sticky traps in the field.

Yield advantages over control, state yield, and national yield

Year	Yield of demonstrated technology (q/ha)	Yield of farmers practice (q/ha)	Yield gap (q/ha)		Yield advantage over (%)		
			State Yield	National Yield	Farmers practice	State Yield	National Yield
Kharif-2018-19	18.70	16.20	+12.12	12.85	15.43	184.19	219.65
Rabi-2018-19	13.75	11.25	+717	+790	22.22	108.96	135.04
Kharif 2019-20	17.02	15.91	+1044	+1117	6.97	158.6	190.9
Rabi-2019-20	14.25	13.00	+767	+840	9.61	116.56	143.58
Kharif - 2020	23.75	20.00	6.5	8.0	18.75	265.38	234.37

Economic details of the technologies

Year	Demo Practice				Farmers Practice			
	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs./ha)	B:C ratio	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs./ha)	B:C ratio
Kharif-2018-19	35750	93500	57750	2.61:1	38300	81000	42700	2.11:1
Rabi-2018-19	32500	68750	36250	2.11:1	36500	56250	19750	1.54:1
Kharif 2019-20	29800	76590	46790	2.57:1	31750	68413	36663	2.15:1
Rabi-2019-20	34600	71250	36650	2.06:1	37800	65000	27200	1.72:1
Kharif - 2020	53750	163875	110125	3.04	57250	138000	80750	2.41

