D.2.e Kisan Gosthi, Adaptive Research (CFLD, FLD and OFT)

Kisan Gosthi: These are conducted to apprise the farmers about different technologies involved in production of different crops and to have direct interaction with farmers. This year **146** Kisan Gosthis were organized involving **10644** farmers.

Cluster Front Line Demonstration (CFLD) and Front Line Demonstration (FLD):

The field demonstration conducted under the close supervision of scientists is called Front Line Demonstration, as the technologies are demonstrated for the first time by the scientists themselves before being fed into the main extension system of the State Department of Agriculture. The main objective of CFLD/FLD is to demonstrate newly released crop production and different technologies and its management practices in the farmers' field under different agroclimatic region and farming situation. During 2025-26, CFLD and FLD programmes were conducted on **16** different crops/technologies/implements like paddy, wheat, niger, green gram, mustard, tomato etc. involving **2135** farmers. Feed back from the involved farmers have been properly collected and provided to respective research institutions.

Details of the CFLD and FLD Programmes Conducted

Sl. No.	Crop/Technology	Variety	Area(ha)	No of Farmers
Cereals				
1	Finger Millet	A 404	100.00	500
2	Paddy	CR 320, Bhutku	52.00	131
3	Maize (Fodder)		20.00	50
Oil Seeds				
4	Mustard (CFLD)	BBM-1	400.00	1000
5	Linseed	Priyam	20.00	50
6	Groundnut	K1812	13.00	52
7	Sesame	GT-6	07.50	19
8	Mustard(FLD) DRMR	BBH-I	40	100
Pulses				
9	Pigeonpea		20.00	62
10	Chick pea		05.00	13
11	Green Gram	Virat	15.00	47
Other Crops/Technology				
12	Horticulture	Low poly tunnel	02.00	25
13	Diary	Supplementation of Probiotics	--	51
14	Goat Farming	Supplementation of Mineral Blocks	--	50
15	Nutri Garden	--	03.00	25
16	Mushroom		--	30
17	Lac		--	30
		Total	**657.5ha/161units**	**2135**



FLD on Indigenous Rice-Bhutku



FLD on CR Dhan -320



CFLD on Mustard



Field Day on Mustard



FLD on Mushroom Cultivation



FLD on Ground Nut



Technological products provides under FLD Programme

On-Farm Trial (OFT)

Objective of this activity is to assess the technologies based on local problems to best fit the socio-economic condition of the farmers and to identify the production constraints. During 2024-25, **11** nos. of On-Farm Trials have been conducted on different crops involving **101** farmers, in different villages of Ranchi District. Details of the OFTs conducted during the year are as given below.

Technological Interventions	Yield (Q/ha)	Yield increase (%)	B:C Ratio
1. Assessment of efficacy of Nitrogen use efficiency in Rice. (Number of trials -10)	38.70	6.17	2.20
2. Assessment of climate resilient varieties in rice suitable for medium land of Ranchi district. (Number of trials -10)	54.00	14.07	1.47
3. Assessment of different insecticidal molecules to control brown plant hopper in rice (Number of trials -8).	39.30	22.39	2.45
4. Assessment of Karanj oil to control external parasites in Goats (Number of trials -18).	100%(Efficacy) after 15 days	Rs. 56.50/goat for treatment	
5. Assessment of different microbial sources in Mustard (Number of trials -10).	13.9	16.5	2.31
6. Evaluation of onion varieties for Kharif Season (Number of Trials - 8)	167	27.48	3.59
7. Regulation of bearing potential in litchi (Litchi chinensis) through girdling of primary branches (Number of Trials -8)	31.99	401	4.03
8. Assessment ofMulching in Mango (Number of trials -8)	18.65kg/tree	31.5	3.48
9. Formulation of Jackfruit Candy (No. of Trials - 10)	Over all acceptability : 9		
11. Development of Complimentary food mix to reduce malnutrition among children (assessment). (Number of trials -10)	Over all acceptability : 8		



Assessment of efficacy of Nitrogen use efficiency in Rice



Assessment of different insecticidal molecules control brown plant hopper in rice



Evaluation of onion varieties for Kharif Season



Assessment of Karanj oil to control external parasites in Goats



Formulation of Jackfruit Candy