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 **12** Kisan Gosthis were organized involving **2603** 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 2024-25, CFLD and FLD programmes were conducted on **18** different crops/technologies/implements like paddy, wheat, niger, green gram, mustard, tomato etc. involving **2366** 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	10.00	25
2	Paddy	CR 320, Bhutku	93.60	234
3	Maize (Fodder)	J 1006	20.00	50
Oil Seeds				
4	Mustard	BBM-1	440.00	1107
5	Linseed	Priyam	20.00	50
6	Groundnut	K1812	60.00	150
7	Sesame	GT-6	30.00	75
8	Niger	JNS-29	100.00	250
Pulses				
9	Chick pea	Pusa 3043	05.20	13
10	Green Gram	Virat	20.00	47
Other Crops/Technology				
11	Potato	K. Khyati	02.00	5
12	Horticulture	Low poly tunnel	10.00	25
13	Dairy	Supplementation of Probiotics	--	51
14	Goat Farming	Supplementation of Mineral Blocks	--	51
15	Nutri Garden	--	00.10	78
16	Mushroom		--	30
17	Cycle Hoe (Pea Crop)		28.40	71
18	Lac		--	54
		Total	**839.3ha/186units**	**2366**



CFLD on Groundnut



Technolgical products Distribution under CFLD Mustard



CFLD on Sesmum



CFLD on Nizer



FLD on Millet



FLD on Cycle Hoe



Field Day and Training under CFLD 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. Improvement of Nitrogen use efficiency in Rice. (Number of trials -10)	37.45	6.2	2.15
2. Assessment of different microbial sources in mustard. (Number of trials -10)	13.9	19	2.31
3. Management of brown plant hopper in Paddy (Number of trials -10).	38.20	21.2	2.27
4. Management of Pod borer complex In pigeon pea (Number of trials -10).	12.1	53.16	2.44
5. Assessment of concentrate feed in pregnant does(Number of trials -4).	8.44kg after 6moths	16	1.66
6. Control and management of external parasites in Goats (Number of trials -6).	Mite count Nil	Efficacy %=100	
7. Assessment of climate resilient varities in rice (Number of trials -7).	53.64	27	1.43
8. Evaluation of onion varieties for Kharif Season (Number of trials -7).	178	20	3.79
9. Regulation of bearing potential of litchi (Number of trials -8)	64.4kg per plant	36	4.9
10. Mulching in Mango (Number of trials -9)	25.5kg/tree	17.5	2.65
11. Assessment of value addition technology of futkal leaf in the form of instant soup mix (Number of trials -10)	Over all acceptability : 8		
12. Preparation of Candy from tamarind (Number of trials -10)	Over all acceptability : 9		



OFT on Agronomy



OFT on Plant Breeding



OFT on Animal Husbandry



OFT on Plant Protection

D.2.f Technologies Transferred for Doubling Farmers' Income

Sl. No.	Name of Programme	Objective of the Programme	Name of Village/Area	No. of Farmers Covered
1	**Promotion of Mustard Production among Tribal Farmers for augmenting Sustainable Livelihood Security**	Improvement in livelihood of tribal farmers of the area through mustard cultivation.	Village- Chaingara, Obar and Gamharia Block - Angara Dist. - Ranchi	107 farmers
2	**Scaling of Natural Farming**	To promote Natural Farming through awareness, training and demonstration	Ranchi District	Awareness - 52360 Training - 354 Demonstration -13
3	**Promotion of Local Resource Based Technologies for upliftment of socio-economic condition of Tribal farmers**	To promote eco-friendly and sustainable agricultural techniques that reduce dependency on synthetic inputs.	Villages under Angara, Mandar, Burmu, Kanke	Natural Farming Cluster - 50 Beekeeping - 16 Vaccination -2500 Kisan mela - 5000
4	**ARYA (Attracting and Retaining Youth in Agriculture)**	➢ To attract and empower the youth in rural areas to take various agriculture allied and service sector enterprises for sustainable income and gainful employment in selected district. ➢ To enable the farm youth to establish network groups to take up resource and capital intensive activities like processing, value addition and marketing.	Beneficiaries of 18 villages under Angara, Silli, Rahe, Burmu, Lapung, Itki, Bero and Lapung	Number of Youth Undergone Training - 56 Entrepreneurial unit Established - 13
5	**Devlopment of Organic Cluster under IIAB(TSP) Programme**	➢ To develop organic cluster ➢ To increase the profitability	Dhurleta, Budhakocha, Piprabera, Gundalitoli,	13 villages, 460 Farmers Covering 700 acres

Sl. No.	Name of Programme	Objective of the Programme	Name of Village/Area	No. of farmers Covered
		➢ To decrease input cost by natural resource based organic nutrient management	Simratoli, Dublabera, Nagrabera and five villages of Nawagarh panchayat of Angara Block under Ranchi District	
6	**Cluster Front Line Demonstration (CFLD) including oil seed model village**	Introduction of improved variety and new technologies to farmers	Ranchi District	1632
7	**Front Line Demonstration**	Introduction of improved variety and new technologies to farmers	Ranchi District	734
8	**On Farm Trials**	➢ To identify the location specifics of agricultural technologies under various farming systems. ➢ Assessment of existing technology so as to suit the need of the farmer	13 Villages of Diffrent Blocks in Ranchi District	101

