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 **06** Kisan Gosthis were organized involving **1316** 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 2023-24, CFLD and FLD programmes were conducted on **18** different crops/technologies/implements like paddy, wheat, niger, green gram, mustard, tomato etc. involving **874** 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	40.00	140
2	Paddy	CR 320, CR 314	07.00	33
Oil Seeds				
3	Mustard	PM-30	40.00	100
4	Sesame	Kankesaphed	10.00	25
5	Niger	BN-2	10.00	25
6	Soyabeen	RKS-18	10.00	25
7	Sunflower	DRSF-108	10.00	25
Pulses				
8	Pigeon pea	Rajiv Lochan	50.00	125
9	Black Gram	Pu31, WBU109	30.00	75
10	Lentil	L4717	20.00	50
Other Crops/Technology				
11	Tomato	Arka Abhed	2.00	12
12	Maize(fodder)	J 1004	--	36
13	Vegetable pea	Pusa Pragati	02.00	28
14	Poultry	Utilization of turmeric power to enhance immunity	50 Units	50
15	Nutri Garden	--	00.10	50
16	Paddy Weeder		05	13
17	Cycle Hoe (Pea Crop)		05	13
18	Battery Sprayer (Paddy Crop)		05	15
		Total	**323.4ha/115units**	**874**



CFLD on Black Gram



CFLD on Sun Flower



CFLD on Green Gram



CFLD on Letil



CFLD on Mustard



Input Distribution to CFLD Farmers



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 2023-24, **12** nos. of On-Farm Trials have been conducted on different crops involving **136** 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 wheat.	37.58	4.2	1.78
2. Integration of fertilizer in different form on yield of lentil.	9.50	2.7	1.81
3. Augmenting cucurbits (bitter gourd) production in Ranchi district by using different cutting technique ensuring higher returns and minimizing risk.	14.60	14.89	5.56
4. Low crop productivity as compared to state as well as national productivity due to high incidence of different diseases like Leaf Curl Virus, Bacterial Wilt, Early and late Blight.	65.3	49.7	2.05
5. Assessment of bio-intensive management practices for major pests in Tomato.	34.39	154	4.55
6. Fruit fly infestation is very common problem in cucumber which leads to significant yield loss..	138.27	52.8	2.06
7. Assessment of microbial consortia against wilting in Solanaceous crops (Tomato).	465.00	16.8	3.87
8. Regulation of bearing potential in litchi (Litchi chinensis) through girdling of primary branches.	32.92 kg/tree	334.3	2.83
9. To assess the effect of probiotic on milk production.	12.57 ltr/d/cow	16.14	2.00
10. Assessment of the effect of Moringa Leaves Powder (Moringaoleifera) on growth performance in backyard poultry.	Rs. 1173/NP/Bird	29.77	2.27 male/5.82 female
11. Value addition of futkal leaf (Ficus virens) to improve the consumption span	9/10(Over all acceptability)		
12. Preparation of Candy from tamarind	9/10(Over all acceptability)		



OFT ON AGRONOMY



OFT ON PLANT BREEDING



OFT ON ANIMAL HUSBANDRY



OFT ON HORTICULTURE, PLANT PROTECTION AND FOOD PROCESSING

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 of Jharkhand for augmenting Sustainable Livelihood Security**	Improvement in livelihood of tribal farmers of the area through mustard cultivation.	Village- Ganeshpur, Block - Ormanjhi Village - Sumo Block-Burmu Village- Tigranayatoli Block- Ratu	108 farmers
2	**Out Scaling of Natural Farming**	To promote Natural Farming through awareness, training and demonstration	Ranchi District	Awareness - 4668 Training - 416
3	**Promotion of Local Resource Based Technologies for upliftment of socio-economic condition of**	To promote eco-friendly and sustainable agricultural techniques that reduce dependency on synthetic inputs.	Villages under Angara, Mandar, Burmu, Kanke	125
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	94
5	**Devlopment of Organic Cluster under KVK (TSP) Programme**	➢ To develop organic cluster ➢ To increase the profitability ➢ To achieve the goal of doubling farmers' income ➢ To decrease input cost by natural resource based organic nutrient management	Dhurleta, Budhakocha, Piprabera, Gundalitoli, Simratoli, Dublabera, Nagrabera and five villages of Nawagarh panchayat of Angara Block	13 villages, 460 Farmers Covering 700 acres

Sl. No.	Name of Programme	Objective of the Programme	Name of Village/Area	No. of farmers Covered
6	**Cluster Front Line Demonstration (CFLD)**	Introduction of improved variety and new technologies to farmers	Ranchi District	450 farmers/ 180ha
7	**Front Line Demonstration**	Introduction of improved variety and new technologies to farmers	Ranchi District	490
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	121



Training on Lac Cultivation



Training on Bee Keeping



Goatery Training



CFLD/FLD Programmes