ACTION PLAN PROFORMA FOR THE KVKs.

(1st January 2026 to 31 December, 2026)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Name and Address of KVK	Telephone		E mail	Website
	Office	FAX		
Krishi Vigyan Kendra, Dhanbad Baliapur farm, Dhanbad-828201	9431176741	-----	kvkdhanbad@rediffmail.com kvkdhanbadbau.2012@gmail.com	www.kvkdhanbad.org.in

1.2 .a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website
	Office	FAX		
Birsa Agricultural University, Ranchi, Jharkhand.	0651-2450849	0651-2450525		

1.2.b. Status of KVK website : Yes/No; Yes Date when the website last updated: **13/05/2025**

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :178957

1.2.d Status of ICT lab at your KVK :

a) No. of PC units :3

b) No. of Printers :3

c) Internet connection : Yes

1.3. Name of the Senior Scientist & Head with phone & mobile no.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr Anil Kumar		9431176741	kvkdhanbadbau.2012@gmail.com

1.4. Year of sanction: 2005

1.5. Staff Position (as on 1st January, 2026)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	Senior Scientist& Head	**Vacant**											
2	Subject Matter Specialist	**Dr. Anil Kumar, I/C Head**	**Scientist**	**Horticulture**	79800-211500	**7000**	**117200**		Permanent	**Gen**	**9431176741**	**anilkvk4@gmail.com**	

3	Subject Matter Specialist	**Dr. Adarsh kumar Srivastava**	**Scientist**	**Agril. Extn**	79800-211500	**7000**	**117200**		Permanent	**Gen**	**7979887927**	**adarh.kvk@gmail.com**	
4	Subject Matter Specialist	**Dr. nandana Kumari**	**Scientist**	**Home Science**	79800-211500	**7000**	**117200**		Permanent		**9835225188**	nandanakumari.1973@gmail.com	
5	Subject Matter Specialist	Dr. Navin Kumar	**Scientist**	**Plant Protection**	79800-211500	**7000**	**117200**		Permanent		**9835225188**	**starnavin.0185@gmail.com**	
6	Subject Matter Specialist	Vacant											
7	Subject Matter Specialist	Vacant											
8	Programme Assistant	Sri Raman Kr. Srivastava	Programme Assistant	Agriculture	Level		68000	19.07.2004	Permanent	Gen	9431166252	ramansrivastava1967@gmail.com	
9	Computer Programmer	vacant											
10	Farm Manager	Sri Sanjay Kumar	Farm Manager	Agriculture	Level-6	4200	68000	20.07.2004	Permanent	Gen	9430706695	sanjaykvk3600@gmail.com	
11	Accountant / Superintendent| Assistant	Sri Dev Prakash Shukla	Assistant	-	Level-6	4200	35400	04.02.2025	Permanent	Gen	8471051876	Dev4sep94@gmail.com	
12	Stenographer	vacant											
13	Driver	vacant											
14	Driver	vacant											
15	Supporting staff	vacant											
16	Supporting staff	vacant											

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)	Name of infrastructure
1	Under Buildings	1.0	Administrative Building, Farmers Hostel, Staff Quarters
2.	Under Demonstration Units	1.0	Rain Water harvesting structure, Threshing floor, Soil test Lab, Seed Processing Unit, Mushroom Unit etc.
3.	Under Crops	4.5	Cereal, Pulse, Oilseed, Vegetable etc
4.	Orchard	1	Mango, Guava, Awanla, Bel etc.
5.	Agro-forestry	-	-
6.	Others with details	2.5	technological park, shednet, pond
	Total	10.0	

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding		Stage					
				Complete			Incomplete		
		ICAR	RKVY	Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR		Before 31.03.2007	500	8.14 lakh			functional
2.	Farmers Hostel	ICAR		Before 31.03.2007	300	7.54 lakh			functional
3.	Staff Quarters (6)	ICAR		Before 31.03.2007	400	3.90 lakh			Completely damaged
4.	Demonstration Units (2)	ICAR							
5	Fencing	ICAR							Incomplete and damaged
6	Rain Water harvesting system								Incomplete
7	Threshing floor			Before 31.03.2007					functional
8	Farm godown			Before 31.03.2007					Functional
	Other								
9	Mushroom Production Unit	ICAR		Before 31.03.2007					Functional
10	Soil test Lab	ICAR							
11	Shade house			2023					functional

B) Vehicles

Type of vehicle	Year of purchase	Source (ICAR/RKVY)	Cost (Rs.)	Total kms. run as on December, 2024	Present status
Tractor with trolley	2006	ICAR		1910.2 hours	Not Working but need repairing
Tractor with trolley	Provided by BAU Ranchi	BAU		01328.0 hours	Working
Tata Sumo	2006	ICAR	500000	283868 km.	Condemned
Motar Cycle	2016	ICAR	59961	4080 km	Working
Motar Cycle	2016	ICAR	59961	10258 km	Working
Tractor with trolley	2006	ICAR		1902.2 hours	Not Working but need repairing
Mahindra Bolro B6	2025	ICAR	880000		Functional

C) Equipment's & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Desktop Computer set	2006	--	Not Working
Xerox	2007	--	Not working
Digital Camera	2007	14512.50	Not Working

1.8. A). Details of SAC meetings to be conducted in the year

Sl. No.	Date
1. Scientific Advisory Committee	28.04.2025

Suggestions of SAC meeting

2. DETAILS OF MICRO-FARMING SITUATIONS OF THE DISTRICT

2.1 Micro-farming situations

a) Characteristics

S. No.	Agro-Ecological situations (AES)	Existing Farming System (Crop+livestock+others)	Major soil types
1	AES 1 (Rainfed undulated plateau area having sandy-loam soil)	Soils are light textured having undulating topography & crops are grown under rainfed situation. No irrigation facility is available	Sandy loam, rainfed, undulating)
2	AES 2 (Rainfed upper plateau having gravelly soil area)	Soils are light textured having undulating topography with irrigation facility. The sources of irrigation are mainly wells and tanks	Sandy loam, undulating, irrigated
3	AES 3 (Rainfed and heavy soil)	Soils are heavy textured, rich in organic matter and fertile. Crops are grown under rainfed situation. Only life saving irrigations is available.	Clay soil, rainfed
4.	AES 4 (Degraded forest and-mining area)	Soils are heavy textured having undulating topography with no irrigation facility. Most of lands are under forest. Crops are grown under rainfed situation.	Heavily soil, undulating, rainfed / forest

b) Land Characteristics

S.No	Agro-Ecological Situation (AES)	Topography	Drainage
1.	AES-1 (Name)	Forest Covered upland undulated Gravely soil type Rainfed	Good drainage
2.	AES-2 (Name)	Rainfed- Gravelly Soil type	Good drainage
3.	AES-3 (Name)	Cannel irrigated Calcarious soil-plains	Poor drainage

c) AES-wise major problems

S.No	Agro-Ecological Situation (AES)	Major problems	Rank
1.	AES-1 (Name)	**Tundi** ➢ Farmers are not aware of improved variety	**8**

		➢ Use of traditional varieties Low productivity of serial and pulses	
2.	AES-2 (Name)	**Govindpur** ➢ Traditional package practices of serial and pulses ➢ Poor Productivity of vegetables ➢ Poor productivity of serial and pulses ➢ Low milk yield of cow and buffaloes ➢ Poor profitability of small animals like goat, pig and poultries.	**9**
3.	AES-3 (Name)	**Baliapur** ➢ Poor Productivity of rice, wheat and oilseed. ➢ No crops diversification ➢ Indigenous breed of animals ➢ More infestation of diseases and pest Use of local farm implements	**10**

2.2. Area, Production and Productivity of major crops cultivated in the district (2025)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)	Yield gap (q/ha) with respect to demo of last year	Yield gap (q/ha) with respect to potential yield
1	Rice	35058	109696	31.29	10.6	
2	Finger millet	258	180	7.0	6.3	
3	Maize	1778	4267	24.0	-	
4	Pigeonpea	1637	1964	12.0	-	
5	Blackgram	807	565	7.0	-	
6	Moong	292	233	8.0	1.6	
7	Kulthi	199	139	7.0	-	
8	Groundnut	128	153	12.0	2.8	
9	Sesame	42	17	4.0	0.9	
10	Wheat	1223	2935	24	11.4	

11	Chickpea	901	1351	15.0	-	
12	Lentil	497	298	6.0	-	
13	Mustard	1335	1201	9.0	2.2	
14	Potato	1248		263	-	
15	Linseed	40	28	7.0	0.6	

Source: District agriculture department.

2.3. Weather data (2025-26)

Year	Month	Rainfall (mm)	Temperature ^{0}C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
2024	May	39.40				
	June	48.80				
	July	116.50				
	August	258.60				
	September	271.70				
	October	175.00				
	November	0				
	December	31.10				
2025	May	56.40				
	June	59.30				
	July	285.00				
	August	621.10				
	September	438.8				
	October	119.2				
	November	0				
	December	0				

2.4 Production and productivity of livestock, Poultry, Fisheries etc. in the district (2025)

Category	Population	Production	Productivity	Productivity gap
Cattle				
Buffalo	14,659			
Sheep	17,817			
Goats	2,25,652			
Cattle				
Crossbred	2,94,441			
Indigenous				
Pigs				

Poultry				
Hens	2,94,441			
Desi				
Category		**Production (q)**	**Productivity**	
Fish (Reservoir)				

*Statical report

2.5 Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Existing yield (q/ha, number/year)	Major problem identified	Identified Thrust Areas
Dhanbad	Baliapur	Shitalpur	**Kharif-** Rice, Ragi, Sesame, Black gram, Red gram, vegetable **Rabi-** Wheat, Mustard, Linseed, Gram, Lentil, Potato, Brinjal **Summer-** Moong, Ladyfinger, Bottle guard, Ridge guard		1. Unavailability of quality seed. 2. Unavailability of quality insecticides. 3. Scarcity of irrigation water during Rabi & Summer. 4. Lack of knowledge about improved scientific cultivation. 5. High cultivation cost of paddy. Damage of grains during storage.	1. Improvement of soil and water conservation practices. 2. Improvement in yield of mono crop rice. 3. Popularization of IPM measures for field and Horticultural crops. Introduction of post harvest & value addition technology.
	Baliapur	Salpatra	**Kharif-** Rice Maize, Sesame, Black gram, Red gram, Vegetables. **Rabi-** Wheat, Mustard, Linseed, Gram, Lentil, Pea, Potato, Brinjal, Cauliflower, Cabbage. **Summer-** Sesame, Moong, Ladyfinger, Cucurbits.		1. Unavailability of quality seed. 2. Unavailability of quality insecticides. 3. Scarcity of irrigation water during Rabi & Summer. 4. Lack of knowledge about improved scientific cultivation. 5. High cultivation cost of paddy. 6. Damage of grains during storage.	1. Improvement of soil and water conservation practices. 2. Improvement in yield of mono crop rice. 3. Popularization of IPM measures for field and Horticultural crops. Introduction of post harvest & value addition technology.

	Baliapur	Baghmara	**Kharif-** Rice, Maize, Sesame, Black gram, Red gram, Millets, Vegetables. **Rabi-** Wheat, Mustard, Linseed, Gram, Lentil, Pea, Potato, Brinjal, Cauliflower, Cabbage. **Summer-** Sesame, Moong, Ladyfinger, Cucurbits, Mashroom Cultivation, Duckery and Fisheries.		1. Unavailability of quality insecticides. 2. Scarcity of irrigation water during Rabi & Summer. 3. Lack of knowledge about improved scientific cultivation. 4. High cultivation cost of paddy. 5. Damage of grains during storage. 6. Unavailability of quality seed. 7. Lack of Knowledge of crop diversification.	1. Improvement of soil and water conservation practices. 2. Improvement in yield of mono crop rice. 3. Popularization of IPM measures for field and Horticultural crops. Introduction of post harvest & value addition technology.

2.6 Top five major priority thrust areas:

i. Improvement of soil and water conservation practices.
ii. Management of problematic soils
iii. Improvement in crop productivity.
iv. Area expansion under rice fellow.
v. Diversification of traditional rice-based cropping system with appropriate commercialization technique.
vi. Breed Improvement of cattle, pig and goat.
vii. Popularization of IPM, IDM & INM measures for field and Horticultural crops.
viii. Introduction of post harvest & value addition technology.

3. TECHNICAL PROGRAMME

3 A. Details of targeted mandatory activities by KVK

OFT		FLD		
(1)		(2)		
Number of OFTs	Number of Farmers	Area (ha)	No of enterprises	Number of Farmers
8	80	35	7	105

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
68	1780	113	3553

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
90	100000	0	3000

3 B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Pest management	Chilies	Low yield of Chilli due to Thrips	Management of chilli thrips					Seed , Insecticide
2	Disease management	Potato	Due to late blight disease. (Phytopthora-infestans)	Management of late blight disease (Phytopthora-infestans) of potato.					Seed , Fungicide
3	INM	Potato	Low yield	Assessment of nutrient on yield of Potato					Boron and zinc fertilizer
4	INM	Okra	Low yield	Effect of nutrients management on yield parameters of Okra					Seed
5	Value Addition	Millet	High prevalence of malnutrition particularly, anemia in reproductive women and small children	Development of finger millet based nutritious laddoos					finger millet, jaggery, peanuts, dates and coconut powder
6	Value Addition	Tomato	Heavy production of tomato in Dhanbad district but not utilized properly and become waste in glut season and very little return to tomato growers.	Development of different sample and easy preserved tomato products					Tomato, vinegar, salt, red food colour, KMS, Sodium Benzoate
7	Group Dynamics and Capacity building	Agriculture production	Lack of technical knowledge on production technology	Knowledge dissemination through village library					Training, Seed
8	Impact study	Mustard	The impact assessment of CFLD Oilseed (Mustard) is not conducted yet which is vital to assess the worthiness or effectiveness of this programme.	Study on Impact of CFLD Oilseeds (Mustard) on the, Transfer of Technology, Production and Income of farmers in Dhanbad district of Jharkhand					

3.1 Technologies to be assessed

A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management					2					2
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition	1				1					2
Integrated Pest Management					1					1
Integrated Disease Management					1					1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	**1**				**5**					**6**

A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

B. Details of all On Farm Trial in the given format

OFT-1

Crop	Vegetable (Crop Chilli)
Season	Summer
Main problem	Low yield of Chilli due to Thrips .
Main cause	Attack of thrips (Scirtothrips - dorsalis)
Title of OFT	Management of chilli thrips
Farming situation	Irrigated medium land clay & sandy loam previous crop- cauliflower
Thematic area	Pest management
Farmer practice	Spray of Imidachlorprid@1ml/3liter of water after attack of thrips
Technology option selected for assessment	T01:- Seed Treatment with Imidachlorprid 70 WS@10gm/kg Seed. One spray of Imidachlorprid 17.8% SL @ 0.5 ml/L T02 :-First spray with Diafenthiuron 47% + Bifenthrin 09.40% W/W SC @ 1.25 ml/L at 25-30 DAS and repeated after 20-25 days.
Source of technology	Vasantrao Naik Marathwada Agriculture University, 2020
No of trial	10
Detail of critical input	Seed , Insecticide
Cost of individual critical input	Rs. 400
Total cost of critical input	Rs. 4000
Performance indicator to be recorded	Percentage pest incidence, Yield q/ha. Cost of cultivation, Gross return/ha, Net Return, BC Ratio

OFT-2

Crop	**Potato**
Season	Rabi 2026-27
Main problem	Due to late blight disease. (Phytopthora-infestans)
Main cause	Phytopthora-infestans
Title of OFT	Management of late blight disease (Phytopthora-infestans) of potato.
Farming situation	Irrigated, medium land clay & sandy loam, Previous Crop- Mandua
Thematic area	Disease Management
Farmer practice	Spray of Mancozeb 75%W.P @ 2gm/Litre of water.
Technology option selected for assessment	T01:-Cymoxanil 8%+Mancozeb 64% W.P(curzate) @ 2gm/Litre of water. First Spray 25-30 days after sowing of potato and second spray with same fungicide after 25-30 days after the first spray. T02 :- Azoxystrobin 11%+ Tebuconazole 18.3 W/W SC @ 1ml/Litre of water. First Spray 25-30 days after sowing of potato and second spray with same fungicide after 25-30 days after the first T03:- Metaxyl 8%+Mancozeb 64% WP @ 2gm/Litre of water. First Spray 25-30 days after sowing of potato and second spray with same fungicide after 25-30 days after the first
Source of technology	ICAR-Central Potato Research Institute-CPRI ,Shimla.
No of trial	10 (10x10)m Plot
Detail of critical input	Seed , Fungicide
Cost of individual critical input	Rs. 1000
Total cost of critical input	Rs.10000
Performance indicator to be recorded	Percent Disease Incidence, Percent Disease control, weight of tuber, Yield q/ha, Cost of cultivation, Gross return/ha, Net Return, BC Ratio

OFT-3

Crop	**Potato**
Season	Rabi 2026
Main problem	Low yield of potato
Main cause	Imbalance use of fertilizer
Title of OFT	Assessment of nutrient on yield of Potato
Farming situation	Irrigated, medium land, loam and sandy loam
Thematic area	Nutrients Management
Farmer practice	T1-Application of NPK@80:60:40(kg/ha)
Technology option selected for assessment	T2-Recommended dose of fertilizer(RDF)150:90:120kg/ha T3- Recommended dose of fertilizer (RDF)115:90:120kg/ha
Source of technology	T-2 ANDUAT, Kumarganj, Ayodhya, 2021 & T -3 Birsa Agricultural University, 2025
No of trial	10 Replication
Detail of critical input	Compost
Cost of individual critical input	Rs.500
Total cost of critical input	Rs.5000/ha
Performance indicator to be recorded	Plant height (cm in 30& 60DAS), No. of tubers per plant, tuber weight(g), tuber yield(q/ha)

OFT—4

Crop	**Okra**
Season	Summer 2026
Main problem	Low yield
Main cause	Imbalance dose of Nutrients
Title of OFT	Management of nutrients in Okra
Farming situation	Soil type:- Red laterite land type:- Mid Land Irrigation type:- Irrigation Previous crop:- Paddy
Thematic area	Nutrients management
Farmer practice	FP- NPK: 50:30:30,
Technology option selected for assessment	TO-2: RDF (NPK; 75:60:50) TO-3: RDF (NPK, 100:50:50)
Source of technology	T-2 ICAR- Research Center for Eastern Region and T-3 Birsa Agricultual University, 2025
No of trial	10
Detail of critical input	Seed
Cost of individual critical input	Rs. 600.00 Each
Total cost of critical input	Rs. 6000
Performance indicator to be recorded	No of fruit Plant, length of fruit (cm), diameter of fruit (cm), weight of fruit (gm) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) Farmer perception

OFT-5

Crop	**Millet**
Season	Kharif, 2026
Main problem	High prevalence of malnutrition particularly, anemia in reproductive women and small children
Main cause	In spite of good production of finger millet in Dhanbad district ,local farm families lack of its processing knowledge for developing it into different kind of nutritious products
Title of OFT	Development of finger millet based nutritious laddoos
Farming situation	Rain-fed
Thematic area	Value Addition
Farmer practice	Local people consume finger millet as chapati
Technology option selected for assessment	T.O.I. Development of finger millet based nutritious laddoos Formulation: Ragi flour 25%, Jaggery 20% , Peanuts25%, Dates15% Coconut Powder 15% T.O.II Development of finger millet based nutritious laddoos Formulation: . Ragi flour 25%, Jaggery 25% , Peanuts15%, Dates 20% , Coconut Powder 15%
Source of technology	Source of Technology: Journal of pharmacognosy and phytochemistry, 2020, 9(2)2411-2415.
No of trial	10
Detail of critical input	finger millet, jaggery, peanuts, dates and coconut powder
Cost of individual critical input	Rs. 500.00 Each
Total cost of critical input	Rs. 5000
Performance indicator to be recorded	(i) Nutritive value , (ii) Sensory Evaluation, (iii) Shelf life, (iv) Economics and BC Ratio

OFT-6

Crop	**Tomato**
Season	Rabi, 2026
Main problem	Heavy production of tomato in Dhanbad district but not utilized properly and become waste in glut season and very little return to tomato growers.
Main cause	In spite of good production of finger millet in Dhanbad district ,local farm families lack of its processing knowledge for developing it into different kind of nutritious products
Title of OFT	Development of different sample and easy preserved tomato products
Farming situation	Rain-fed
Thematic area	Value Addition
Farmer practice	Local people consume tomato as salty tomato chutney
Technology option selected for assessment	T.O.I. Development of preserved tomato product in the form of tomato puree from ripe tomatoes (Formulation: Tomato pulp 15kg, Salt 2000gram, Red food colour :As per need, Sodium benzoate; 1/8th teaspoon per kg final product) T.O.II. . Development of another preserved tomato product in the form of tomato crush from ripe tomatos (Formulation: Raw tomato;3kg (Tomato pulp 1kg),, vinegar -100ml , KMS=0.4 gram per kg final product, sodium benzoate=0.2 gram per kg final product)
Source of technology	Source of Technology: Technical bulletin, Title : laghu udyog hetu khaddya mulyavardhan taknikiyan, Department of Foods and Nutrition, college of Home science GBPUAT, Pantanagar, Uttarakhand Technical bulletin, Title : Low cost technology for preservation of fruits and vegetables, Division of Fruits and Horticultural Technology,, Indian Agricultural Research Institute, New Dehli, page 6
No of trial	10
Detail of critical input	Tomato, vinegar, salt, red food colour, KMS, Sodium Benzoate.
Cost of individual critical input	Rs. 500.00 Each
Total cost of critical input	Rs. 5000
Performance indicator to be recorded	Nutritive value , Sensory Evaluation, Shelf life, Economics and BC Ratio

Impact Study -1

Crop	
Season	Rabi 2026
Main problem	Lack of technical knowledge on production technology
Main cause	Low yield
Title of OFT	Knowledge dissemination through village library
Farming situation	Medium land clay & sandy loam Irrigated
Thematic area	Group Dynamics and Capacity building
Farmer practice	T1- Non user
Technology option selected for assessment	T2-- Village Library user group
Source of technology	Journal of Emerging Technologies and Innovative Research (JETIR) January 2023, Volume 10, Issue 1
No of trial	1 (30 farmers from each village 2 library)
Detail of critical input	Training, Seed
Cost of individual critical input	Rs. 10000 each group
Total cost of critical input	Rs.20000 /ha
Performance indicator to be recorded	(i) Physical facilities provided by KVK i) Knowledge level of farmers i) Awareness level of the farmers v) Adoption level before and after (v) Need based , usefulness of materials, timeliness of materials

Impact Study -2

Crop	Mustard
Season	Rabi 2026
Main problem	The impact assessment of CFLD Oilseed (Mustard) is not conducted yet which is vital to assess the worthiness or effectiveness of this programme.
Main cause	Low Production
Title of OFT	Study on Impact of CFLD Oilseeds (Mustard) on the, Transfer of Technology, Production and Income of farmers in Dhanbad district of Jharkhand
Farming situation	Irrigated
Thematic area	Impact analysis
Farmer practice	T1 - Non user
Technology option selected for assessment	Impact assessment of CFLD Oilseeds (Mustard)
Source of technology	IGKV, Raipur
No of trial	50 (25 –beneficiaries +25 –Non-beneficiaries)
Detail of critical input	-
Cost of individual critical input	Rs. 1000/-
Total cost of critical input	Rs. 10000/-
Performance indicator to be recorded	(1)Extension gap (2)Technology Gap (3)Additional return (4)Percent increase yield (5)Technology Index (6) Socio-economic impact

3.2 Frontline Demonstrations

A. Details of FLDs to be organized -

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demon.	Parameters identified (Yield related attributes, yield economics and farmers' perception
1	Paddy	**Crop production**	Use variety CR- Dhan 320 Climate resilient variety, Time of nursery bed raising Mid June + seed rate @ 40 kg/ha + seed treatment carbendazime with 2 gm/kg of seed + spacing row to row 20 cm and plant to plant 10 cm + transplanting at 3-4 week old seedling + weed control 1st 20-25 DAT & 2nd 35-40 DAT+ 45 kg urea at top dressing after 1st weeding..	Seed	Kharif 2026	25	75	(I) Technical indicator- No. of tillers, 1000 grain wt. (gm) and Yield (q/ha) (II) Economic indicator – Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net Return (Rs./ha) and B:C ratio (III) Farmer Feedback- Low yield due to old varieties and poor agronomical practices
2	Finger Millet	Crop Production	Use variety B.M-3,Timely of nursery bed raising Mid June + seed rate @ 8 kg/ha + seed treatment carbendazime with 2 gm/kg of seed + spacing row to row 30 cm and plant to plant 10 cm + transplanting at 3-4 week old seedling + weed control 1st 20-25 DAT & 2nd 35-40 DAT+ 40 kg urea at top dressing after 1st weeding..	Seed	Kharif 2026	10	25	(I) Technical indicator- No. of tillers, 1000 grain wt. (gm) and Yield (q/ha) (II) Economic indicator – Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net Return (Rs./ha) and B:C ratio (III) Farmer Feedback- Low yield due to old varieties and poor agronomical practices
3	Paddy	Crop Production	Use variety DRR Dhan 48 (Zn content 22 PPM in polised rice and 27 PPM in brown rice), Time of nursery bed raising Mid June + seed rate @ 40 kg/ha + seed treatment carbendazime with 2 gm/kg of seed + spacing row to row 20 cm and plant to plant 10 cm + transplanting at 3-4 week old seedling + weed control 1st 20-25 DAT & 2nd 35-40 DAT+ 45 kg urea top dressing after 1st weeding.	Seed	Kharif 2026	2	5	(I) Technical indicator- No. of tillers, 1000 grain wt. (gm) and Yield (q/ha) (II) Economic indicator – Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net Return (Rs./ha) and B:C ratio (III) Farmer Feedback- Low yield due to old varieties and poor agronomical practices
4	Vegetable	Vegetable Production	Improved Variety, Seed treatment, with Carbendazine @2gm/Kg, line sowing (200CMX100CM), (100CMX60CM), (150CMX100CM) and RDF-(50:60:50 NPK),	Seed	Rabi 2026	10	25	Technical indicator- (I) Yield and Yield attribute (II) Economic indicator - Cost of cultivation, Gross Cost, Net income, BC Ratio (III) Farmer Feedback-
5	Onion	Nursery	Improved Variety, Seed	Seed	Rabi 2026	1.0	5	Technical indicator-

		Raising	treatment with Carbendazine @2gm/Kg, drenching of nursery with fungicide					(I) Yield (II) Economic indicator - Cost of cultivation, Gross Cost, Net income, BC Ratio (III) Farmer Feedback-
6	Sweet Corn Maize	Maize production	Improved variety Namdhari-8601), seed treatment with Carbendazine @2 gm/Kg, line sowing (75X30cm) and RDF (150:60:40 NPK)	Seed	Rabi 2026	1.0	10	(I) Technical indicator- Yield and yield attributes (II) Economic indicator - Cost of cultivation, Gross Cost, Net income, BC Ratio Farmer Feedback-
7	Value addition	Mango Squash	Development of raw mango squash because it is need in strong heat wave summer season	Raw material	Summer 2026	10	10	1. Nutritive value, 2. Sensory Evaluation, 3. Shelf life, 4. Economics 5. B:C Ratio
8	Manual Groundnut Decorticator	Drudgery reduction	Use of manual groundnut decorticator machine for decortication purpose	groundnut decorticator machine	Kharif , 2026	10	10	1. Efficiency, 2.Output, 3. Drudgery Index 4. Economics 5. B:C Ratio
				Total		**53 Ha/ 20Units**	**165**	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Farmers Training	12	June, July, August, November, December	300
2	Field days	8	March, April, November, December,	240
3	Media coverage	12	All months	
4	Training for extension functionaries	1	December	30
	Kisan Gosthi	6	March, April, November, December,	250

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators

Details of all FLD in the given format

FLD-1

Title of FLD	**Demonstration of Climate resilient variety Rice var. CR Dhan - 320**		
Season & Year	Kharif 2026		
Main Problem	Low productivity of Rice		
Main cause of problem	Low yield of Rice due to use of old variety and unavalibility of Climate resilient variety		
Full detail of farmer's Practice	Old Variety – Lalat, use more seed rate (80 kg/ha) and poor agronomical practices		
Full detail of technology to be demonstrated	Use variety CR- Dhan 320 Climate resilient variety, Time of nursery bed raising Mid June + seed rate @ 40 kg/ha + seed treatment carbendazime with 2 gm/kg of seed + spacing row to row 20 cm and plant to plant 10 cm + transplanting at 3-4 week old seedling + weed control 1st 20-25 DAT & 2nd 35-40 DAT+ 45 kg urea at top dressing after 1st weeding.		
Source of Technology with year	BAU, Ranchi		
Name of the Technology	Variety and agronomical practices.		
Thematic area	Crop production		
Name of villages	Shitalpur and Salpatra		
Farming situation	Rain-fed, Medium land, clay soil		
Area (ha)/Unit (No.)	25ha	No of farmers	75
Performance indicator	(I) Technical indicator- No. of tillers, 1000 grain wt. (gm) and Yield (q/ha) (II) Economic indicator -Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net Return (Rs./ha) and B:C ratio **(III)** Farmer Feedback- Low yield due to old varieties and poor agronomical practices		

FLD-2

Title of FLD	**Demonstration on Finger millet var. BM-3**
Season & Year	Kharif 2026
Main Problem	Low productivity of finger millets
Main cause of problem	Low yield of finger millet due to use of old variety (Desi Mandua)
Full detail of farmer's Practice	Old Variety – Thopa kode , more seed rate (17 kg/ha) and poor agronomical practices
Full detail of technology to be demonstrated	Use variety B.M-3,Time of nursery bed raising Mid June + seed rate @ 10 kg/ha + seed treatment carbendazime with 2 gm/kg of seed + spacing row to row 30 cm and plant to plant 10 cm + transplanting at 3-4 week old seedling + weed control 1st 20-25 DAT & 2nd 35-40 DAT+ 40 kg urea at top dressing after 1st weeding.
Source of Technology with year	BAU, Ranchi
Name of the Technology	Variety and agronomical practices

Thematic area	Crop production		
Name of villages	Kolhar and Bishunpur		
Farming situation	Rain-fed upland , sandy loam		
Area (ha)/Unit (No.)	**10 ha**	**No of farmers**	25
Performance indicator	(I) Technical indicator- No. of tillers, 1000 grain wt. (gm) and Yield (q/ha) (II) Economic indicator – Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net Return (Rs./ha) and B:C ratio (III) Farmer Feedback- Low yield due to old varieties and poor agronomical practices		

FLD-3

Title of FLD	Demonstration on Rice var. DRR Dhan 48 (Bio fortified) (Yield-55-60qt/ha Duration 135-140 Days)		
Season & Year	**K**harif, 2026		
Main Problem	Low productivity of Rice		
Main cause of problem	Low yield of Rice due to use of old variety		
Full detail of farmer's Practice	Old Variety – MTU1010, use more seed rate (80 kg/ha) and poor agronomical practices		
Full detail of technology to be demonstrated	Use variety DRR Dhan 48 (Zn content 22 PPM in polised rice and 27 PPM in brown rice), Time of nursery bed raising Mid June + seed rate @ 40 kg/ha + seed treatment carbendazime with 2 gm/kg of seed + spacing row to row 20 cm and plant to plant 10 cm + transplanting at 3-4 week old seedling + weed control 1st 20-25 DAT & 2nd 35-40 DAT+ 45 kg urea at top dressing after 1st weeding.		
Source of Technology with year	ICAR- Indian Institute of Rice Research (IIRR), Hyderabad		
Name of the Technology	Variety and agronomical practices		
Thematic area	Crop production		
Name of villages	Shitalpur and Salpatra		
Farming situation	Rain-fed, Medium land, clay soil		
Area (ha)/Unit (No.)	**2 ha**	**No of farmers**	5
Performance indicator	(I) Technical indicator- No. of tillers, 1000 grain wt. (gm) and Yield (q/ha) (II) Economic indicator – Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net Return (Rs./ha) and B:C ratio (III) Farmer Feedback- Low yield due to old varieties and poor agronomical practices		

FLD-4

Title of FLD	Production technology of vegetable (Botlle Gaurd variety- Haruna, Bitter Gaurd Variety- Pali, Pumpkin Variety-Jumbo (east west)
Season & Year	Rabi, 2026
Main Problem	Low yield
Main cause of problem	Lack of awareness about improved varieties
Full detail of farmer's Practice	Local variety, No seed treatment and imbalance use of fertilizer
Full detail of technology to be demonstrated	Improved Variety, Seed treatment, with Carbendazine @2gm/Kg, line sowing (200CMX100CM), (100CMX60CM), (150CMX100CM) and RDF-(50:60:50 NPK)
Source of Technology with year	ICAR- RCER, Ranchi
Name of the Technology	Production Technology of Vegetable

Thematic area	Vegetable Production, Upland and medium, sandy and clay soil		
Name of villages	Jagdishpur, Salpatra, Pandeydih, Palani, Ankhdwara		
Farming situation	Rain-fed and irrigated		
Area (ha)/Unit (No.)	**10ha**	**No of farmers**	**25**
Performance indicator	Technical indicator- (I) Yield and Yield attribute (II) Economic indicator - Cost of cultivation, Gross Cost, Net income, BC Ratio (III) Farmer Feedback-		

FLD-5

Title of FLD	Production of disease free seedling of Onion		
Season & Year	Rabi -2026		
Main Problem	High mortality of seedling		
Main cause of problem	unawareness about nursery raising		
Full detail of farmer's Practice	Local variety, No seed treatment and no application of fungicide		
Full detail of technology to be demonstrated	Improved Variety, Seed treatment with Carbendazine @2gm/Kg, drencing of nursery with fungicide		
Source of Technology with year	ICAR- Directorate of Onion and Garlic Research, Pune		
Name of the Technology	Nursery Raising		
Thematic area	Irrigated, medium land and sandy soil		
Name of villages	Baghmara, Gharbad		
Farming situation	Rain-fed and irrigated		
Area (ha)/Unit (No.)	**1ha**	**No of farmers**	**5**
Performance indicator	Technical indicator- (I) Yield (II) Economic indicator - Cost of cultivation, Gross Cost, Net income, BC Ratio (III) Farmer Feedback-		

FLD-6

Title of FLD	Production technology of Sweet Corn Maize (Nandhari-8601)		
Season & Year	Rabi 2026		
Main Problem	Low productivity		
Main cause of problem	Lack of knowledge and awareness about improved variety		
Full detail of farmer's Practice	Local variety, No seed treatment and imbalance use of fertilizer		
Full detail of technology to be demonstrated	Improved variety Namdhari-8601), seed treatment with Carbendazine @2 gm/Kg, line sowing (75X30cm) and RDF (150:60:40 NPK)		
Source of Technology with year	BAU Ranchi		
Name of the Technology	Production Technology of Sweet corn-(Namdhari-8601)		
Thematic area	Irrigated, medium land, sandy and clay soil		
Name of villages	Bara-baghmara, Dardaha, Palani		
Farming situation	Rainfed		
Area (ha)/Unit (No.)	**5.0**	**No of Farmers**	**12**

Performance indicator	(I) Technical indicator- Yield and yield attributes (II) Economic indicator - Cost of cultivation, Gross Cost, Net income, BC Ratio (III) Farmer Feedback-

FLD-7

Title of FLD	Development of Raw Mango Squash		
Season & Year	Summer , 2026		
Main Problem	In spite of good production of mango in Dhanbad district , raw mangoes are not fully utilized, ultimately mango growers remain poor		
Main cause of problem	Because farm families lack of knowledge regarding its value addition and preservation		
Full detail of farmer's Practice	Local people consume pickle from raw mango developed from traditional method		
Full detail of technology to be demonstrated	Development of raw mango squash because it is need in strong heat wave summer season.		
Source of Technology with year	Technical Bulletin ,Title: Phal aum sabzi parirakshan digdarshika, Page no:9.		
Name of the Technology	Preservation of raw mango as squash		
Thematic area	Value Addition		
Name of villages	Pradhan khanta		
Farming situation	Rainfed		
Area (ha)/Unit (No.)	**10.0**	**No of Farmers**	**10**
Performance indicator	(I) Nutritive value, (II) 2. Sensory Evaluation, (III) 3. Shelf life , (IV) 4. Economics (V) 5. B:C Ratio		

FLD-8

Title of FLD	Assessment of Efficiency of Manual Groundnut Decorticator		
Season & Year	Kharif , 2026		
Main Problem	In spite of good production of groundnut in Dhanbad district , its decortication process is time taking, labor some and full of drudgery		
Main cause of problem	Because farm women lack of knowledge regarding simple, easy and cost effective drudgery reducing implements		
Full detail of farmer's Practice	Local people use hand shelling process		
Full detail of technology to be demonstrated	Use of manual groundnut decorticator machine for decortication purpose		
Source of Technology with year	Technology of CIAE, Bhopal, Madhya Pradesh, India		
Name of the Technology	Drudgery Reduction		
Thematic area	Drudgery Reduction		
Name of villages	Godtopa		
Farming situation	Upland, Sandy loam, Rainfed		
Area (ha)/Unit (No.)	**10.0**	**No of Farmers**	**10**

Performance indicator	(I) 1. Efficiency, (II) 2.Output, (III) 3. Drudgery Index (IV) 4. Economics (V) 5. B:C Ratio

3.3 Training (Including the sponsored and FLD training programmes): Note: 25 participants per training

A) ON Campus

hematic Area	Name of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	5	5	10	5	10	15	25
Resource Conservation Technologies	1	5	20	25	-	-	-	25
Cropping Systems								
Crop Diversification								
Site specific nutrient management								
Integrated Farming								
Water management	1	-	-	-	20	5	25	25
Seed production	1	5	5	10	5	10	15	25
Nursery management								
Integrated Crop Management								
Fodder production								
Production of organic inputs								
Natural farming								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	1	-	-	-	10	15	25	25
Off-season vegetables	1	5	5	10	5	10	15	25
Nursery raising	1	5	5	10	5	10	15	25
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
Natural farming								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management	1	-	25	25	-	-	-	25
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								

Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology	1	-	25	25	-	-	-	25
Processing and value addition								
f) Spices								
Production and Management technology	1	-	25	25	-	-	-	25
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	1	-	10	10	-	15	15	25
Soil and Water Conservation								
Integrated Nutrient Management	1	-	10	10	-	15	15	25
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	-	10	10	-	15	15	25
Design and development of low/minimum cost diet	1	-	10	10	-	15	15	25
Designing and development for high nutrient efficiency diet	1	-	10	10	-	15	15	25
Minimization of nutrient loss in processing	1	-	10	10	-	15	15	25
Gender mainstreaming through SHGs								
Storage loss minimization techniques	1	-	10	10	-	15	15	25
Value addition								
Income generation activities for empowerment of rural Women	1	-	10	10	-	15	15	25
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	15	10	25	-	-	-	25
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								

Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	3	-	25	25	-	50	50	75
Integrated Disease Management	3	-	25	25	-	50	50	75
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production	1	10	-	10	-	15	15	25
Planting material production								
Bio-agents production	1	-	-	-	-	25	25	25
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	1	-	15	15	10	-	-	25
Group dynamics								
Formation and Management of SHGs/FPOs etc								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL	**28**	**50**	**270**	**320**	**50**	**330**	**380**	**700**
(B) RURAL YOUTH								
Mushroom Production	2	-	30	30	-	30	30	60
Bee-keeping								
Integrated farming								
Seed production	1	20	-	20	20	-	10	30
Production of organic inputs	1	20	-	20	-	10	10	30

Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	10	-	10	10	10	20	30
Training and pruning of orchards								
Value addition	1	-	15	15	-	15	15	30
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing	1	-	20	20	-	10	10	30
Post Harvest Technology								
Tailoring and Stitching	1	-	--	-	-	30	30	30
Rural Crafts								
TOTAL	**8**	**50**	**65**	**115**	**30**	**105**	**125**	**240**
(C) Extension Personnel								
Productivity enhancement in field crops	2	5	25	30	5	25	30	60
Integrated Pest Management								
Integrated Nutrient management	2	5	35	40	5	15	20	60
Rejuvenation of old orchards								
Protected cultivation technology	1	5	25	-	-	-	-	30
Formation and Management of SHGs	1	15	-	15	10	5	15	30
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								

Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs	1	10	-	10	15	-	15	30
Gender mainstreaming through SHGs						-		
Any other (Pl. Specify) stregthening of FPOs through interprise	1	5	20	25	5	0	5	30
TOTAL	8	45	105	120	40	**45**	85	240
G. Total	44	145	440	555	120	480	590	1180

B) OFF Campus Note: 25 participants per training

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	5	20	25	-	-	-	25
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification	1	20	5	25	-	-	-	25
Integrated Farming								
Water management	1	-	-	-	15	10	25	25
Seed production								
Nursery management								
Integrated Crop Management	2	50	-	50	-	-	-	50
Fodder production								
Production of organic inputs	1	5	20	25	-	-	-	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	1	15	10	25	-	-	-	25
Off-season vegetables	1	-	-	-	-	25	25	25
Nursery raising	1	-	-	-	-	25	25	25
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	-	-	-	20	5	25	25
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								

Processing and value addition								
e) Tuber crops								
Production and Management technology	1	25	-	25	-	-	-	25
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	1	-	15	15	-	10	10	25
Soil and Water Conservation								
Integrated Nutrient Management	1	5	20	25	-	-	-	25
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	15	-	15	10	-	10	25
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management	1	0	15	15	-	10	10	25
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	-	25	25	---	-	-	25
Design and development of low/minimum cost diet	1	-	10	10	-	15	15	25
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	1	-	25	25	-	-	-	25
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	1	-	-	-	-	25	25	25
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care	1	-	-	-	-	25	25	25
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	10	-	10	15	-	15	25
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	1	-			-	25	25	25
Integrated Disease Management	1	-	-	-	-	25	25	25
Bio-control of pests and diseases	1	-	15	15	-	10	10	25
Production of bio control agents and bio pesticides								

VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs(HS)								
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro)								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	**24**	**150**	**180**	**340**	**60**	**210**	**270**	**600**

Thematic Area	**No. of Courses**	**No. of Participants**						
		Others			**SC/ST**			**Grand Total**
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	2	10	25	35	5	10	15	50
Resource Conservation Technologies	1	5	20	25	-	-	-	25
Cropping Systems								
Crop Diversification	1	20	5	25	-	-	-	25
Integrated Farming								
Water management	2	-	-	-	35	15	50	50

Seed production	1	5	5	10	5	10	15	25
Nursery management								
Integrated Crop Management	2	50	-	50	-	-	-	50
Fodder production								
Production of organic inputs	1	5	20	25	-	-	-	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	15	10	25	10	15	25	50
Off-season vegetables	2	5	5	10	5	35	40	50
Nursery raising	2	5	5	10	5	35	40	50
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	-	-	-	20	5	25	25
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants	1	-	25	25	-	-	-	25
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology	2	25	25	50	-	-	-	50
Processing and value addition								
f) Spices								
Production and Management technology	1	-	25	25	-	-	-	25
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management	2	-	25	25	-	25	25	50
Soil and Water Conservation								
Integrated Nutrient Management	2	5	30	35	-	15	15	50
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	15	-	15	10	-	10	25
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	1	0	15	15	-	10	10	25
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	2	-	35	35	-	15	15	50

Design and development of low/minimum cost diet	2	-	20	20	-	-	30	50
Designing and development for high nutrient efficiency diet	1	-	10	10	-	15	15	25
Minimization of nutrient loss in processing	2	-	35	35	-	15	15	50
Gender mainstreaming through SHGs								
Storage loss minimization techniques	1	-	10	10	-	15	15	25
Value addition	1	-	-	-	-	25	25	25
Income generation activities for empowerment of rural Women	1	-	10	10	-	15	15	25
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care	1	10	-	10	15	-	15	25
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	2	25	10	35	15	-	15	50
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	4	-	25	25	-	75	75	100
Integrated Disease Management	4	-	25	25	-	75	75	100
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production	1	10	-	10	-	15	15	25
Planting material production (Horti)								
Bio-agents production	1	-	-	-	-	25	25	25
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	1	-	15	15	10	-	-	25
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL								

(B) RURAL YOUTH								
Mushroom Production	2	-	30	30	-	30	30	60
Bee-keeping								
Integrated farming								
Seed production	1	20	-	20	20	-	10	30
Production of organic inputs	1	20	-	20	-	10	10	30
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	10	-	10	10	10	20	30
Training and pruning of orchards								
Value addition	1	-	15	15	-	15	15	30
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing	1	-	20	20	-	10	10	30
Post Harvest Technology								
Tailoring and Stitching	1	-	--	-	-	30	30	30
Rural Crafts								
TOTAL	**8**	**50**	**65**	**115**	**30**	**105**	**125**	**240**
Mushroom Production								
(C) Extension Personnel								
Productivity enhancement in field crops	2	5	25	30	5	25	30	60
Integrated Pest Management								
Integrated Nutrient management	2	5	35	40	5	15	20	60
Rejuvenation of old orchards								
Protected cultivation technology	1	5	25	-	-	-	-	30
Formation and Management of SHGs	1	15	-	15	10	5	15	30
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs	1	10	-	10	15	-	15	30
Gender mainstreaming through SHGs						-		

Any other (Pl. Specify)	1	5	20	25	5	0	5	30
Total	8	45	105	120	40	**45**	85	240
G. TOTAL	**68**	**295**	**620**	**895**	**180**	**690**	**860**	**1780**

C) Consolidated table (ON and OFF Campus)

Details of training programmes attached in **Annexure -I**

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	8	120	200	320	15	5	20	135	35	340
Kisan Mela	4	950	350	100	25	15	40	975	365	1340
Kisan Ghosthi	10	200	200	400	18	12	30	243	87	430
Exhibition	5	100	150	250	25	10	35	475	185	285
Film Show	15	150	300	450	15	15	30	1265	265	480
Farmers Seminar	5	175	50	225	25	15	40	200	65	265
Workshop	5	200	50	250	30	10	40	230	60	290
Group meetings	10	50	200	250	5	2	7	55	202	257
Lectures delivered as resource persons	150	1750	350	2100	35	15	50	1785	365	2150
Newspaper coverage	50									0
Radio talks	6									0
TV talks	6									0
Popular articles	4									0
Extension Literature	12									0
Advisory Services	1200	2250	450	2700	45	15	60	2295	465	2760
Scientific visit to farmers field	180	1850	350	2200	15	10	25	1865	360	2225
Farmers visit to KVK	1500	1200	300	1500	-	-	-	1200	300	1500
Diagnostic visits	1680	1500	350	1850	-	-	-	1500	350	1850
Exposure visits	15	180	120	300	15	10	25	195	130	325
Ex-trainees Sammelan	1	75	25	90	10	5	25	75	30	115
Soil health Camp	5	125	25	150	10	5	15	135	30	165
Animal Health Camp	-	-	-	-	-	-	-	-	-	0
Agri mobile clinic	-	-	-	-	-	-	-	-	-	0
Soil test campaigns	5	300	150	450	15	5	20	315	155	470
Farm Science Club Conveners meet	3	30	10	40	5	-	5	35	15	45
Self Help Group Conveners meetings	5	10	40	50	5	-	5	15	40	55
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	0
Celebration of important days (specify)	5	100	150	250	15	10	25	365	160	275
Krishi Mohostva	-	-	-	-	-	-	-	-	-	0
Krishi Rath	-	-	-	-	-	-	-	-	-	0

Pre Kharif workshop	1	25	25	50	5	2	7	55	27	57
Pre Rabi workshop	1	25	25	50	2	0	2	72	15	52
PPVFRA workshop	-	-	-	-	-	-	-	-	-	0
Any Other (Specify)										0
Total										15731

3.5 Target for Production and supply of Technological products

A) SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	CRDhan	60
	Ragi	BM3	5
	Wheat	DBW 252	10
OILSEEDS	Mustard	BBM-1	5
	Mustard	BPM-11	2
PULSES			
VEGETABLES			
OTHERS (Specify)	Onion	Sukhsagar	20q
	Papaya	Green Globe	1000
	Tomato	Laxmi	40000
	Brinjal	**JK8030**	**40000**

B) PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Amrapali Langra Dusheri Mallika	4000
	Guvava	Allahabad Safeda, L-49	1000
SPICES			
VEGETABLES			
FOREST SPECIES			
ORNAMENTAL CROPS			
		Total	

C) BIO-PRODUCT

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES				
1				
2				

D) LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				

GOAT				
SHEEP				
POULTRY				
Pig farming				
FISHERIES				

3.6 Literature to be Developed/Published

(A) KVK News Letter

Date of start :

Number of copies to be published :

(B) Literature to be developed/published

S. No.	Topic	Number
1	Research paper each scientist	2
2	Technical reports	5
3	News letters	
4	Training manual all discipline	3
5	Popular article	5
6	Extension literature	10
	Total	

(C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette, whatsapp group, mobile app, etc.	Title of the product	Number
1	Whatsapp Group	Dhanbad farmers	800

3.7. Success stories/Case studies identified for development as a case. - 08

a. Brief introduction/Background

b. Interventions/process

c. Output

d. Outcomes

e. Impact

i) Social economic

ii) Bio-Physical

f. Good Action Photographs

3.8 Indicate the specific training need analysis tools/methodology followed for

Practicing Farmers

a)

b)

c)

Rural Youth

a)

b)

c)

d)

In-service personnel

a)

b)

c)

3.9 Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) PRA
ii) Problem identified from Matrix based ranking & analysis
iii) Field level observations
iv) Farmer group discussions
v) Others if any

For FLD:

i) New variety/technology
ii) Poor yield at farmers level
iii) Existing cropping system
iv) Others if any

3.10 Field activities

i. Name of villages identified/adopted with block name (from which year) -
ii. No. of farm families selected per village:
iii. No. of PRA conducted:
iv. No. of technologies taken to the adopted villages
v. Name of the technologies found suitable by the farmers of the adopted villages:
vi. Impact (production, income, employment, area/technological– horizontal/vertical)
vii. Constraints if any in the continued application of these improved technologies

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : 2006

2. List of equipment's purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1			

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	3000	300	60	150000
Water				
Plant				
Total				

4.0 LINKAGES

4.1 Functional linkage with different organizations/department

S. No.	Programme	Nature of linkage	Outcome of linkage
1	Name of organization	Nature of linkage	
2	DRDA, Dhanbad	Infrastructure & sponsored training programme.	
3.	District Agriculture Office, Dhanbad	Participation in training, FLD, Joint survey.	
4.	District Animal Husbandry Office Dhanbad	Joint training programme & participation in meeting.	

5.	District Fisheries Office, Dhanbad	Joint training programme & participation in meeting.	
6.	District Horticulture Office, Dhanbad	Joint training programme & participation in meeting.	
7.	District Plant Protection Office Dhanbad	Joint diagnostic survey & participation in meeting.	
8.	District Forest Office, Dhanbad	Participation in meeting.	
9.	Agricultural produce market committee 9.(Bazaar Samiti), Dhanbad	Joint training programme, participation in meeting & joint Krishak Gosthi.	
10.	Lead Bank Manager office, Dhanbad	Financial support from banks to trained persons for entrepreneur development.	
11.	Zonal Office, Bank of India Dhanbad	Financial support from banks to trained persons for entrepreneur development.	
12.	NABARD Dhanbad	Formation of SHG, Kisan Club & Training.	
13.	Tata Steel Rural Development Society, Dhanbad	Joint training programme & participation in meeting.	
14.	NGO Samarpan	Joint training programme.	
15.	Krishi Bikash Shilpa Kendra, Birbhum(W.B)	Joint training programme.	
16.	IARI, Hazaribagh	To take Adviosry service, as a resource person, demonstration under SCSP	
17.	ICAR- RCER, Patna	To take Adviosry service, as a resource person	
18.	ATMA, Bokaro	Training and advisory	

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Dhanbad Yes

Sl.No.	Name of organization	Nature of Linkage	Outcome of linkage
1.	Training	Training	
2.	Farmer Scientist Interaction programme	Training	
3.	Field day, Gosthi	advisory	
4.	Joint Demonstration		
5.	Exposure visit	advisory	

5. Utilization of Hostel facilities

S. No.	Programme	No. of days
1		
2		
	Total	No.

6. Partnership with departments for technology out scaling (proposed):

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
Crop Production											
	PF/FW	Production technology of Kharif crop	5	5	20	25	-	-	-	25	June
	PF/FW	Production technology for Kharif pulses	5	-	-	-	5	20	25	25	June

	PF/FW	Weed management in DSR	1	5	20	25	-	-	-	25	July
	PF/FW										
Horticulture											
	PF/FW	Nursery raising of vegetable crops	3	5	20	25	-	-	-	25	January
	PF/FW	Cultivation practice of leguminous vegetable	3	5	20	25	-	-	-	25	November
	PF/FW	Cultivation practise of fruit vegetables	3	-	-	-	5	20	25	25	May
	PF/FW										
Livestock prod.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Agril. Engg.											
	PF/FW	Drip irrigation	3	-	-	-	5	20	25	25	May
	PF/FW										
	PF/FW										
Home Sc.											
	PF/FW	Training on drudgery reduction through t he use of simple ,easy and cost effective f arming tools or farm women	3	-	-	-	5	20	25	25	April
	PF/FW	Development of raw papaya and jack fru it based preserved for farm families	3	5	20	25	-	-	-	25	September
	PF/FW										
	PF/FW										

Plan prot.											
	PF/FW	Integrated disease management of paddy	3	5	20	25	-	-	-	25	June
	PF/FW	Integrated Nutrient management	3	-	-	-	5	20	25	25	June
	PF/FW	Control of wilting in fruit Vegetable.	3	5	20	25	-	-	-	25	May
	PF/FW										
Fisheries											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Soil Health											
	PF/FW	Balance use of fertilizer	2	5	20	25	-	-	-	25	May
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										

i) Farmers & Farm women (Off Campus)- Nil

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	Month of training
				M	F	T	M	F	T		
Crop Production											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Horticulture											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										

Live Stock Production.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Agril. Engg.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Home Sc.											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Plant Protection											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Fisheries											
	PF/FW										
	PF/FW										
	PF/FW										
	PF/FW										
Soil health											
	PF/FW										
	PF/FW										
	PF/FW										

ii) Vocational training programmes for Rural Youth - Nil

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			SC/ST participants			G.Total	Month of training
				M	F	T	M	F	T		

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	
				M	F	T	M	F	T		
On Campus											

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	

a) Sponsored training progdramme											
Agriculture	DAO		Integrated crop management	5			50			75	125
Horticulture	DHO		Mali Training	1			5			4	9
			Total								
b) Sponsored research programme											
			Total								
c) Any special programmes											
			PM Live								**300**
			PM Kisan Saaman Nidhi Yojna	**3**							**900**
			Total								

Signature of Senior Scientist & Head