

KRISHI VIGYAN KENDRA BARH, PATNA
27th Extension Council Report, 2024
April- 2024 to September- 2024

1. Staff Position (Only Senior Scientist & Head and S.M.S)

S. N.	Name	Post	Specialization	Date of joining	Mobile No.
1	Dr. Reeta Singh	Sr. Sci.& Head	Home Science	09.07.2019	9931312288
2	Dr. Mrinal Verma	SMS	Agril. Engineering	25.07.2007	9431266300
3	Sri Rajeev Kumar	SMS	Soil Science	12.04.2012	9122763207
4	Dr. Pushpam Patel	SMS	Horticulture	06.11.2023	9123201061
5	Smt. Sangita Kumari	SMS	Plant Breeding & Genetics	10.07.2024	7277182387

2. (A). Achievement of training program for Farmer (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Home Science	08	107	59	23	45	130	104
ii	Agril. Engineering	15	361	35	56	13	417	48
iii	Soil Science	23	593	42	31	17	624	59
iv	Horticulture	15	46	153	61	130	107	283
v	Plant Breeding & Genetics	03	48	04	07	32	55	36
	Total	64	1155	293	178	237	1333	530

(B). Training Program for Rural Youth (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Home Science	03	63	10	06	02	123	12
ii	Agril. Engineering	02	29	08	06	01	35	09
iii	Soil Science	04	94	02	18	0	112	02
iv	Horticulture	06	88	07	34	06	122	13
v	Plant Breeding & Genetics	01	27	02	04	0	31	02
	Total	18	334	23	89	9	423	32

(C). Training Program for Extension Functionaries (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Home Science	01	0	0	12	11	12	11
ii	Agril. Engineering	05	69	48	14	17	83	65
iii	Soil Science	04	285	76	39	35	324	111
iv	Horticulture	03	01	80	0	40	120	121
v	Plant Breeding & Genetics	01	0	28	0	11	0	39
	Total	14	355	232	65	114	444	347

(D). Sponsored Training program (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Home Science	04	101	35	21	11	121	46
ii	Agril. Engineering	08	545	105	83	19	628	124
iii	Soil Science	02	67	14	12	05	79	19
iv	Horticulture	03	107	53	14	09	121	62
	Total	17	820	207	130	44	949	251

(E) Skill Development Training Program 2023-24

No of training	Name of QP/ Job role	Title of the training	Duration (in hrs.)	No. of participants								
				SC		ST		Other		Total		
				M	F	M	F	M	F	M	F	T
01	Vermicompost (RPL)	Vermicompost (RPL)	80	04	0	0	0	26	0	26	0	30

3. Special Program (April 2024 to September 2024)**i. PM Live telecast**

S. No	Name of Program	Date of Program	Place of Program	No. of Participant	Visit of VIPs.
1.	PM Live telecast (Kisan Samman Nidhi)	18.06.2024	KVK, Barh, Patna	80	
2.	PM Live telecast(Release of 109 varieties)	11.08.2024		72	
3.	Live Telecast on Nationwide Launch of National Pest Surveillance System (NPSS) by Honorable Agriculture Minister	15.08.2024		25	

ii. Sawal Jabab

S. No	Name of Program	Date of Program	Place of Program	No. of Participant
1.	Sawal Jabab (Pryogshala Se Khet Tak)- Barsati Sabjiyon Ki Kheti	20.07.2024	KVK, Barh, Patna (Online)	10
2.	Sawal Jabab (Pryogshala Se Khet Tak)- Dhaan Ke Phasal Me Samekit Keet & Rog Prabhandhan	17.08.2024		09
3.	Sawal Jabab (Pryogshala Se Khet Tak)- Barish Ke Dino Pashuo Ka Rakhrakhao	07.09.2024		13

iii. Special Day Celebration

S. No	Name of Program	Date of Program	Place of Program	No. of Participant	Visit of VIPs.
1.	World Earth Day	22.04.2024	KVK, Barh, Patna	16	-
2.	World Environment Day	05.06.2024	KVK, Barh, Patna	44	
3.	Bihar Aamotsav 2024	14-16.06.2024	Raj Bhawan, Patna	320	
4.	Parthenium Awareness Week	16-22.08.2024	KVK, Barh, Patna	33	
5.	Ek Ped Maa Ke Naam Plantation Drive	12.08.2024	KVK, Barh, Patna	18	

6.	15 th Foundation Day of BAU	04-05.08.2024	BAU, Sabour	06	
7	09 th Foundation Day of ICAR-ATARI, Patna	19.08.2024	ICAR-ATARI, Patna	25	
8.	Ek Ped Maa Ke Naam Plantation Drive	31.08.2024	KVK, Barh, Patna	11	

iv. Poshan Maah

S. No	Name of Program	Date of Program	Place of Program	No. of Participant		Total
				Male	Female	
1.	Training on Poshan Vatika & Nutri-kit distribution	03.09.2024	KVK, Campus	04	19	23
2.	Millet Recipe contest	05.09.2024	KVK, Campus	0	25	25
3.	Awareness prog on Establishment of Poshan Vatika	10.09.2024	Belchhi	08	14	22
4	Importance of Poshan Vatika	11.09.2024	Pandarak	23	19	42
5	Kisan Goshthi on Poshan Vatika	12.09.2024	Fulelpur	09	15	24
6	Mushroom cultivation	21.09.2024	KVK, Campus	0	36	36

4. Front Line Demonstration

(A) Front Line Demonstration, (April 2024-September 2024)

Crop	Variety	Area (ha)	Season	Village/Block	Beneficiaries		Total
					SC/ST	Others	
Nutri kit	Different vegetables variety	0.4	Summer	Bihta, Barh, Pandarak, Athmalgola	4	13	17
Cauliflower	S. Agrim	5.0	Kharif	Barh, Pandarak, Athmalgola	0	10	10
Bitter Gourd	Pusa do Mausami	0.4	Kharif	Barh, Pandarak, Athmalgola	4	25	29
Finger millets/Ragi	A-404	4.0	Kharif	Khusrupur, Belchi, Danapur	0	10	10
Proso millets/Cheena	Local	3.0	Kharif	Bihta, Belchi, Danapur, Barh	0	08	08
Foxtail millet	SIA-3156	1.20	Kharif	Belchi, Danapur, Barh	0	04	04
Little millet	CLMV-1	1.20	Kharif	Bihta, Belchi, Danapur, Barh	0	04	04
Pearl millet	MTMH-21	1.2	Kharif	Bihta, Belchi, Danapur, Barh	0	05	05

(B) Cluster Front Line Demonstration, 2023-24

Crop	Technology demonstrated	No. of Farmers	Area (acre)	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ ha)				Economics of check (Rs./ha)			
				Demo	Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Lentil IPL-316	HYV, seed treatment, bio fertilizer application, IPM	60	60	15.83	13.71	15.88	30545.17	106729.17	76184	2.49	28045.67	93054.63	65008.96	2.32
Mustard RH-725	Improved variety, sulphur@10 Kg/ha, Insect pest management	175	175	17.20	14.97	15.09	31106.29	97175.48	66069.19	2.12	30041.14	84599.23	54558.08	1.82

5. Climate Resilient Agriculture Program

(A) Physical Target and Achievement (Summer)

Crop	Technology demonstrated	No. of Farmers	Area (acre)	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ ha)				Economics of check (Rs./ha)			
				Demo	Check		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Green Gram (Sikha)	ZTD	304	260	11.35	9.20	25.24	28300.00	105263.34	76963.53	2.72	30500.00	84092.23	53582.28	1.76

(B) Physical Target and Achievement (Kharif)

Crop	Intervention	Target (acre)	Achievement (acre)
DSR	ZTD	50	50
Maize	RBP	200	200
Pigeon pea	RBP	50	50
Soybean	RBP	50	50
Sorghum	Line Sowing	130	130
Pearl millet	Line Sowing	50	50
Finger millet	Line Sowing	45	45
Community irrigation	-	20	20
Total		595	595

(C) Capacity Building

Program	No. of Program	No of participants		
		Male	Female	Total
Training	33	860	79	939
Field Day	05	242	06	248
Exposure Visit	02	30	0	30
Total	40	1132	85	1217

(D) Long Term Experiment (KVK, Farm) Kharif, 2024

S. No.	Crop/Intervention	Plot Size (m ²)	Sowing Date	Crop Name	Variety
1	Paddy line Sowing	1000	14.07.2024	Paddy	R.Sweta
2	Paddy DSR	1000	18.06.2024	Paddy	R.Sweta
3	Paddy line Sowing	1000	17.07.2024	Paddy	R.Sweta
4	Paddy line Sowing	1000	31.07.2024	Paddy	R.Sweta
5	Paddy line Sowing	1000	18.07.2024	Paddy	R.Sweta
6	Finger Millet/ Line Sowing	1000	11.06.2024	Finger Millet	A-404
7	Paddy DSR	1000	18.06.2024	Paddy	R.Sweta
8	Paddy line Sowing	1000	25.07.2024	Paddy	R.Sweta
9	Paddy line Sowing	1000	11.07.2024	Paddy	R.Sweta
10	Paddy line Sowing	1000	10.07.2024	Paddy	R.Sweta

6. SCSP Program**(A) Capacity Building Programme April 2024-September 24**

Date	Place	Male	Female	Total
20.04.2024	Kamrapar, Atmalgola	12	12	24
24.04.2024	Agwanpur, Barh	02	23	25
23.07.2024	Kamrapar, Atmalgola	0	58	58
29.08.2024	Agwanpur, Barh	0	32	32
12.09.2024	Fulelpur	02	26	28
Total		16	151	167

(B) Performance of Demonstration

Name of Demo. Village	Date of Demo.	Name of Demo.	No. of Demo.	No. of People	No of Farm Families	No of Benef.	Farmers Practice	Recomm. Practice	Farmers Practice income/Month/ Farm Family (Rs)	Recommend ed practice income per month per Farm family (Rs.)	Overall Income/ Month (Rs.)
Farmer of different villages of Patna district	28/04/2024	Sewing Machine	1	F-63 M-2	65	65	Not having Sewing Machine	Use of Sewing Machine for commercial & personal purposes	10000	1200	11200
Kamrapar, Athmalgola	16/08/2024	Vegetable seed kit	1 Kit per person	F-21 M-10	31	31	Do not establish Nutri garden or Kitchen Garden	Established Nutri Garden/ Kitchen Garden	9500	800 (100 m ² area)	10300
Lodipur	25/09/2024	Vegetable seed kit	1 Kit per person	F-35 M-0	35	35	Do not established Nutri garden or Kitchen Garden	Established Nutri Garden/ Kitchen Garden	8000	800 in 100 m ² area	8800
Indiranagar, Mokama	16/01/2024	Chicks	40 nos	F-14 M-8	22	22	Don't having Poultry	Backyard Poultry Farming	8500	1500	10000
Fulelpur, Athmalgola	28/02/2024	Mushroom Spawn	2 Kg per person	F-25 M-10	35	35	Do not grow mushroom	To grow Mushroom	9000	1500	10500
Kamrapar, Athmalgola	20/04/2024	Chicks	36 nos	F-12 Ma-12	24	24	Don't having Poultry	Backyard Poultry Farming	6500	1200	7700
Agwanpur	24/04/2024	Chicks	10 nos	F- 23 M-02	25	25	Don't having Poultry	Backyard Poultry Farming	7000	1200	8200

7. Natural Farming

S. No.	Programme	Achievement			
		No. of Program	Beneficiary		
			Male	Female	Total
1	Training Program	5	141	08	149

8. Malnutrition Eradication

(A) Particulars about the Adopted Village

Sr. No.	Particulars	Value/s
1	Name of the village	Agwanpur
2	Block name	Barh
3	Total Geographical Area	159 ha.
4	Total Population	3916
5	Literacy Rate (%)	55.03%
6	Number of Household	633
7	Number of SC population	821
8	Distance from KVK	1 km
9	Major Crops Grown	Rice, Wheat and Maize
10	Animal Husbandry i. Cattle population ii. Poultry population	45

(B) Achievement

S. N	Name of activities	Date	Number of activities	Participates			Total Number/ Area (m ²)
				Male	Female	Total	
1.	Nutrition garden unit developed		32	0	32	32	3200 m ²
2.	Capacity Building	04.04.2024	05	02	23	25	Male - 08 Female - 115 Total - 123
		05.06.2024		03	17	20	
		05.07.2024		01	30	31	
		16.08.2024		02	22	24	
		04.09.2024		0	23	23	
3.	Demonstration (Chicks)	22.04.2024	01	02	07	09	
4.	FLD (Summer)		47	0	47	47	Av. Yield 164 kg/Nutri-garden/100m ² area
5.	Field Day	24.05.2024	01	01	11	12	
6.	Millet Recipes Contest	05.09.2024	01	0	25	25	

9. Community Radio Station (91.2 FM)

Name of CR:	Community Radio Station, Barh, Patna	
Frequency:	91.2 Mhz	
Establishment Date:	31 st May 2011	
Total hours of transmission in a day:	07 hrs	
Coverage Area:	20 km Ariel distance	
Program Broadcast		
Program	Broadcast Duration	Broadcast Time
Krishak Manch	60	Morning
Mahila Jagat	60	
Swasthya Charcha	45	
Bal Manch	15	
Lok Rang	30	
Krishak Manch	60	Afternoon
Santulit Urwark ewm Swasthy Mitti	30	
Swasthya Charcha	60	Evening
Mahila Jagat	30	
Lok Rang Swasthya Baan	30	

10. Resource Generation

S.No.	Name of the program	Amount
1	Training Hall charges	23,205.00
Total		23,205.00

11. Revolving Fund

Opening balance as on 01.04.2023	Fund generated	Expenditure	Fund Available 31.03.2024	
			Cash	Kind
69,77,206.05	43,29,323.00	13,02,922.50	1,00,92,142.55	13,50,000.00

12. Award received by KVK Scientist/Staff

Sl.	Name of Staff	Designation	Address	Contact No.	Purpose	Conferring Authority
1.	Dr. Reeta Singh	Sr. Scientist & Head	KVK, Patna	9931312288	Revolving Fund	ATARI, Patna
2.	Sri Jayant Prasad	Assistant	KVK, Patna	9334891800	Outstanding Accounting Management System in KVKs	ATARI, Patna

13. Award received by Farmers of Patna district

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Amount	Purpose	Conferring Authority
1.	Best Farmers Award	Sri Anand Murari Singh	Mokama	7004489682	Certificate	Best Farmer of Patna District for millet production	BAU, Sabour
2.	Best Farmers Award	Sri Baban Kumar	Barh		Certificate	Best Farmer of Patna District for Honey production	

14. Seed Production (April 2024 - September 2024)

Crop	Variety	Area (ha)	Class	Production (q)
Gram	S. Chana-1	3.5	F/S	8.90
Rai	RH-725	1.7	T/L	17.20
Wheat	HD-2967	3.5	C/S	129.80
Lentil	IPL-316	4.51	C/S	17.02
Potato	UC Map	0.2	T/L	33.20
Potato	K. Neelkanth	0.07	T/L	12.0
Moong	Shikha	4.5	C/S	6.80
Paddy	R. Sweta	3.7	C/S	Crop standing
Soybean	P 1241	07	T/L	Crop standing
Urd	IPU-13-01	02	F/S	Crop damaged due to heavy rain

15. On Farm Trial 2023-24

Sl	Topic	Problem diagnosed	Treatment	Area (ha)	Village & Block	Beneficiary	Remarks
1	Improvement of Nitrogen Use Efficiency in Rice	Excessive use of chemical fertilizer and spiraling price of urea leads to increase cost of cultivation	Farmers Practice : RDF (100:40:20) N:P:K Kg/ha Technological option I : 50% of RDN +100%PK+ Nano Urea @ 4ml per litre water (Single spray at pre flowering stage Technological option II : 50% of RDN +100%PK+ 2 spray of Nano Urea at (25-30 days & (60-65 days) @ 4 ml/litre water Nano Urea @ 4ml per litre water		Puraibag, Barh	07	Ongoing

16. Other Extension Activities

Nature of Extension Activity	No. of activities	Total		
		Male	Female	Total
Field Day	06	81	09	90
Field Visit	03	14	0	14
Kisan Ghosthi	02	31	33	64
Lectures delivered as resource persons	17	949	251	1200
Advisory Services	27	680	0	680
Scientist visit to farmers field	22	170	30	200
Diagnostic visits	10	36	02	38
Exposure visits	01	14	0	14
Farmers visit to KVK	198	191	07	198

17. Training program to be organized (October 2024 to March 2025)

(A). Practicing Farmers

S.N	Subject	No. Training	Participants		Total
			Other	SC/ST	
1	Home Science	03	45	15	60
2	Agricultural Engg.	20	365	75	440
3	Soil Science	24	480	120	600
4	Horticulture	17	340	85	425
5	Plant Breeding & Genetics	04	91	29	120

(B) Rural Youth

S.N	Subject	No. Training	Participants		Total
			Other	SC/ST	
1	Home Science	03	45	15	60
2	Agricultural Engg.	05	84	16	100
3	Soil Science	08	160	40	200
4	Horticulture	07	140	35	175
5	Plant Breeding & Genetics	03	83	26	109

(C) Extension Functionary

S.N	Subject	No. Training	Participants		Total
			Other	SC/ST	
1	Home Science	01	15	05	20
2	Agricultural Engg.	03	47	03	50
3	Soil Science	08	144	120	264
4	Horticulture	02	36	04	40
5	Plant Breeding & Genetics	03	72	18	90

18. On Farm trial (To be conducted in Rabi)

OFT- 01, Agril Engg. 2024 (Rabi)

1	Title	Assessment of sowing of lentil by different machines
2	Problem diagnosed	In Patna district Lentil is cultivated in an area of 46135 ha and the productivity is 12.9 q/ha (Potential yield 15-20q/ha) . Still the sowing method of the pulses is broadcasting resulting low yield. Therefore, an attempt to address this problem On Farm Trial has been designed to increase the productivity and profitability in pulses production adopting mechanization.
3	Technological option	Farmers Practice:- Broadcasting in tilled condition Technology option I: Sowing by Multi crop Planter in Tilled Condition Technology option II: Sowing by Seed Drill in Tilled Condition
4	Source of Technology	CIAE, Bhopal & PAU, Ludhiana
5	Replication	07

6	Production system and thematic area:	
7	Performance of the technology with performance indicators	Technical Parameter -Germination, Plant Population(No.of plant/m ²), Field Capacity (ha/hr) Economic Parameter -Grain yield (q/ha), Straw yield (q/ha), Gross Cost (Rs/ha), Gross return (Rs/ha), Net Return (Rs/ha), Benefit Cost ratio.
8	Constraints identified	
9	Process of Farmer Participation	

OFT 2, Agril Engg. 2024 (Rabi)

1	Title	Assessment of different threshing method of Pigeonpea
2	Problem diagnosed	Low efficiency of farm labourer due to drudgery involved in Pigeon pea threshing and winnowing operation leads to higher cost and less profitability.
3	Technological option	Farmers Practice:- Manual Threshing Technology option I: Threshing by wire loop paddy thresher followed by manual winnowing Technology option II: Threshing by wire loop paddy thresher followed by winnowing in multicrop thresher
4	Source of Technology	ICAR-IARI, Delhi & KVK Barh (Local source)
5	Replication	07
6	Production system and thematic area:	
7	Performance of the technology with performance indicators	Economic Parameter - Grain yield (q/ha), Gross Cost (Rs/ha), Gross return (Rs/ha), Net Return (Rs/ha), Benefit Cost ratio.
8	Constraints identified	
9	Process of Farmer Participation	

OFT- 02, Soil Science- 2024 (Rabi)

1	Title	Assessment of soil application of sulphur on growth, yield and economics of Mustard
2	Problem diagnosed	In Patna district mustard is cultivated in an area of 7170 ha and the productivity is 7.9 q/ha. The soil of the Patna district (60%) is deficient in sulphur. Therefore an attempt to address this problem On Farm Trial has been designed to increase the productivity and profitability in mustard cultivation
3	Technological option	Farmers Practice:- RDF i.e 80:40:40 N:P ₂ O ₅ :K ₂ O (BAU, Sabour, Bhagalpur) Technology option I: RDF + Bentonite sulphur @20Kg/ha + seed dressing with Azotobacter @5ml /Kg seed (Source of technology – DRMR, Bharatpur, Rajsthan)

		Technology option II: RDF + Bentonite sulphur @20Kg/ha + seed dressing with PSB @5ml /Kg seed (Source of technology – DRMR, Bharatpur, Rajsthan)
4	Source of Technology	BAU, Sabour, Bhagalpur & DRMR, Bharatpur, Rajsthan
5	Replication	08
6	Production system and thematic area:	
7	Performance of the technology with performance indicators	No. of branch/plant, No. of siliqua/plant, No. of seed/pod, 1000 grain weight(gm), Grain yield (q/ha), Straw yield (q/ha), Gross Cost (Rs/ha), Gross return (Rs/ha), Net Return (Rs/ha), Benefit Cost ratio, pre and post soil nutrient status
8	Constraints identified	
9	Process of Farmer Participation	

OFT- 02, Soil Science- 2024

OFT result, Soil Science (Kharif 2024-25)

Title of OFT - Improvement of Nitrogen use efficiency in Rice

Problem diagnoses: Excessive use of chemical fertilizer and spiralling price of urea leads to increase in cost of cultivation

- Details of technology selected for assessment/refinement
 - Farmers practice : RDF (N:P: K: 100:40:20 Kg/ha)
 - Technological option I : 50% RDN and 100%PK + Nano urea @4 ml/lit water(single spray at pre flowering stage)
 - Technological option II : 50% RDN and 100%PK +2 spray of Nano urea at (25-30 days) and (60-65 days) @4 ml/lit water
- Source of technology : OFT workshop at BAU, Sabour, Bhagalpur
- Production system and thematic area: Rice- Wheat cropping system & Integrated Nutrient Management
- Performance of the technology with performance indicators

Technological options	No of tiller/m ²	No of effective tiller/m ²	Panicle length (cm)	No of grain/ panicle	1000-grain weight (g)	grain yield (q/ha)	straw yield (q/ha)
Farmers practice (RDF i.e N:P:K::100:40:20 Kg/ha)	249.27	206.89	18.125	128.87	22.62	53.57	81.43
50% RDN and 100%PK + Nano urea @4 ml/lit water(single spray at pre flowering stage)	234.00	194.21	15.25	117.25	20.62	41.13	62.52
50% RDN and 100%PK +2 spray of Nano urea at (25-30	243.75	202.31	16.25	125.87	21.75	48.49	73.71

days) and (60-65 days) @4 ml/lit water							
SEM $\pm$	10.96	7.61	0.20	4.29	0.32	1.22	2.82
CD(p=0.05)	23.46	16.28	NS	9.18	NS	2.61	6.03
CV(%)	18.09	15.13	5.02	13.84	5.92	10.23	15.54

2. Economics of paddy cultivation under different nitrogen management practices

Technological options	Gross cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
Farmers practice (RDF i.e N:P:K::100:40:20 Kg/ha)	44800	140848	96048	3.14
50% RDN and 100%PK + Nano urea @4 ml/lit water(single spray at pre flowering stage)	42200	108150	65950	2.56
50% RDN and 100%PK +2 spray of Nano urea at (25-30 days) and (60-65 days) @4 ml/lit water	43400	127498	84097	2.93

5. Pre sowing soil nutrient status:

pH- 7.1, EC- 0.06, OC%- 0.56, Av N- 285.3, Av P₂O₅-12.6, Av K₂O- 154.2, DTPA extractable Fe-12.4 ppm, Mn- 11.2 ppm, Zn-0.34 ppm, Cu- 0.25ppm

6. Post harvest soil nutrient status: pH – 7.4, E.C -0.08, Organic carbon% - 0.66, Available N- 275.6Kg/ha, Available P₂O₅ -11.7Kg/ha, Available K₂O- 150.6 Kg/ha, DTPA extractable Fe-12.04 ppm, Mn-12.5 ppm, Zn-0.40 ppm, Cu- 0.22 ppm

7. Final recommendation for micro level situation: Application of nano urea either one or two spray does not increase the yield level up to application of recommended dose of fertilizer and the yield reduction is about 12.44 and 5.08 q/ha in single and two application of nano urea, respectively. It is therefore recommended that before large scale recommendation it must be tested on the experimental stations.

8. Process of farmers participations:

Farmers actively participated in the programme.



OFT- 03, Horticulture. 2024 (Rabi)

1	Title	Assessment of bio-fertilizer on growth and yield of Mango (cv. Amarpali)
2	Problem diagnosed	Poor flowering and fruit set
3	Technological option	Farmers Practice:- 50 Kg FYM per plant Technology option I: Arka mango special spray 5gm/lit (two times) Time of foliar spray : First spray- October-November Second spray- February - March Technology option II: ½ dose of RDF (N:P:K:: 500:250:250 gm/tree) + 50 Kg FYM + Azospirillum culture (250g/tree) Time of application : August - September
4	Source of Technology	IIHR, Bangalore and AICRP, Sabour
5	Replication	07
6	Production system and thematic area:	Integrated nutrient management
7	Performance of the technology with performance indicators	i. Technical indicator: Numbers of fruits per plant, Fruit weight (g), Yield/plant (kg) ii. Economic indicator (cost of cultivation, gross return, net return, B:C ratio) iii. Farmer perception
8	Constraints identified	
9	Process of Farmer Participation	

OFT- 04, Horticulture. 2024 (Rabi)

1	Title	Assessment of Different Mulching Material in Mango (cv. Amrapali).
2	Problem diagnosed	Heavy weed infestation leads Poor flowering
3	Technological option	Farmers Practice:- No mulching/Litter fall of tree Technology option I: Mulch with same tree leaves (Thickness of mulch-15-20cm) Technology option II: Mulch with paddy straw (Thickness of mulch-15-20cm) Technology option III: Mulch with Tephrosia leaf (Thickness of mulch-15-20cm)
4	Source of Technology	IIHR (2021)
5	Replication	07
6	Production system and thematic area:	Resource conservation technology
7	Performance of the technology with performance indicators	i. Technical indicator: Numbers of fruits per plant, Fruit weight (g), Yield/plant (kg) ii. Economic indicator (cost of cultivation, gross return, net return, B:C ratio)

		iii. Farmer perception
8	Constraints identified	
9	Process of Farmer Participation	

OFT 05, Plant Breeding & Genetics. 2024 (Rabi)

1	Title	Assessment of Bio-fortified wheat variety
2	Problem diagnosed	Low content of zinc & iron in traditional wheat variety Malnutrition
3	Technological option	Farmers Practice:- Lok-1 Variety Technology option I: Variety- BHU-31(Rajendra gehun-4) Technology option II: Variety- HUW 838
4	Source of Technology	Institute of Agricultural Science- BHU Year-2021
5	Replication	10
6	Production system and thematic area:	
7	Performance of the technology with performance indicators	Technical Parameter- No. of effective tillers/hills, Test weight (gm), Grain yield/hectare (q/ha) Economic Parameter- Gross cost (Rs./ha), Gross return (Rs./ha), Net return (Rs./ha), B:C Ratio
8	Constraints identified	
9	Process of Farmer Participation	

19. Frontline Demonstration

(A) Frontline demonstration to be conducted 2024 (Rabi)

Sl. No	Season	Crop	Variety	Area (ha)	No. of Demo
1	Rabi	Mushroom	Oyster, Button, Milky	100 kg.	20
2	Rabi	Vegetable Seed	Nutri-Garden	100 pkt.	100
3	Rabi	Onion	Onion seed	2.0	32
4	Rabi	French Bean	French Bean	1.0	16
5	Rabi	Beetroot	Beetroot	1.0	40
6	Rabi	Pashu Chocklet	Pashu Chocklet	100 pkt.	100
7	Rabi	Mineral mixture	Mineral mixture	50 pkt.	50
8	Rabi	Sodium Benzoate		500 gm	25 farmers
9	Rabi	Citric Acid		500 gm	25 farmers
10	Rabi	Potassium meta bisulphate		500 gm	25 farmers
11	Rabi	Rhizobium Culture		20 ha	50

(B) Cluster Frontline Demonstration to be conducted 2024 (Rabi)

Crop	Variety	Session	Area (ha)	No. of Farmer
Mustard	RH-725	Rabi	300	750
Linseed	Garima	Rabi	50	125

20. Seed to be produced at KVK, farm 2023 (Kharif)

S. No.	Crop	Variety	Class	Area (ha)
1.	Lentil	IPL 316	C/S	2.8
2.	Gram	S. Chana-1	C/S	3.4
3.	Wheat	HD-2967	C/S	3.1
4.	Rai	RH-725	T/L	2.5
5.	Lathyrus	Ratan	T/L	1.0
