

KRISHI VIGYAN KENDRA BARH, PATNA
20th Extension Council Report, 2021
April- 2020 to March, 2021

1. Staff Position (Only S.S & H and S.M.S)

S.No.	Name	Post	Specialization	Date of joining	Mobile No.
1.	Dr. Kumari Sharda	Senior Scientist & Head	Home Science	07.05.2012	7549476543
2.	Dr. Mrinal Verma	SMS,	Agril. Engineering	25.07.2007	9431266300
3.	Dr. Bishnu Deo Singh	SMS	Extension Education	20.12.2007	9430806435
4.	Sri Brajesh Patel	SMS	Plant Protection	15.06.2009	9234535651
5.	Sri Rajeev kumar	SMS	Soil Science	12.04.2012	9835133147

2. A. Achievement of training programme 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	7	37	98	6	22	43	120
ii	Agril. Engineering	16	238	46	20	7	258	53
iii	Extension Edu.	15	250	103	45	24	295	128
iv	Plant protection	12	352	54	20	9	372	63
V	Soil Science	7	121	13	10	2	131	15
	Total	57	998	314	101	64	1099	379

B.Training programme 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	43	0	42	20	85	20
i	Agril. Engineering	06	68	31	73	19	141	50
ii	Extension Edu.	05	69	32	18	04	87	36
iii	Plant protection	13	196	85	110	13	207	98
iv	Soil Science	06	87	29	84	10	171	39
	Total	33	463	177	327	66	691	243

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

S.No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Agril. Engineering	02	79	04	05	01	85	05
ii	Extension Edu.	05	215	03	10	01	225	04
iii	Plant protection	03	144	27	06	0	150	27
iv	Soil Science	04	70	06	13	0	83	06
	Total	14	508	40	34	2	543	42

D. Sponsored training programme (ON/OFF)

S.No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Agril. Engineering	01	56	17	12	03	68	20
ii	Extension Edu.	02	71	09	10	02	81	11
iii	Plant protection	03	150	15	23	07	173	22
iv	Soil Science	02	52	09	0	0	52	09
Total		8	329	50	45	12	374	62

* Sponsored by ATMA, Patna, State Department of Agriculture, BAMETI, Patna, Jal Shakti Abhiyan

F. Online Meeting /Training Schedule through Cisco WebEx, 2020

S. No	Name / Designation of Trainer	Topic	Date & Time	Participants		
				M	F	T
1	Dr. Bishnu Deo Singh (SMS, Extension Education)	<i>Kharif Faslon Ki Vaigyani Kheti</i>	10.06.2020 (10:30 AM – 12:00 PM)	17	0	17
2	Sri Brajesh Patel (SMS, Plant Protection)	<i>Sabji Ki Kheti Me Nursery Ka Mahatwa</i>	16.06.2020 (10:30 AM – 12:00 PM)	23	01	24
3	Sri Brajesh Patel (SMS, Plant Protection)	<i>Garma Mushroom Ki Kheti</i>	19.06.2020 (10:30 AM – 12:00 PM)	19	04	23
4	Dr. Kumari Sharda (Sr. Scientist & Head)	<i>Tomato Ke Vividh Upayog</i>	22.06.2020 (10:30 AM – 12:00 PM)	01	26	27
5	Dr. Kumari Sharda (Sr. Scientist & Head)	<i>Aam Ka Parirakshan</i>	24.06.2020 (10:30 AM – 12:00 PM)	0	32	32
6	Dr. Mrinal Verma (SMS Agril. Engg.)	<i>Yantrik Vidhi Se Dhaan Ki Ropai</i>	26.06.2020 (10:30 AM – 12:00 PM)	18	0	18
7	Sri Rajeev Kumar (SMS Soil Science.)	<i>Dhan Ki kheti me khar patwar prabandhan.</i>	29.06.2020 (10:30 AM – 12:00 PM)	22	0	22
8	Sri Rajeev Kumar (SMS Soil Science.)	<i>Dhan Ki kheti me poshak tatwa prabandhan.</i>	29.06.2020 (01:00 PM – 01:30 PM)	23	0	23
9	Dr. Kumari Sharda Sr. Scientist & Head	<i>Preservation & value addition.</i>	24.09.2020 (01:00 AM – 01:00 PM)	0	40	40
Total				123	103	226

G. Poshan Maah, 2020

KVK	Date	No. of Angwandi Workers	No. of Farm Women & Jeevika Didi	Others	Total Participants
Kanchanpur, Bihta	08.09.2020	0	0	15	15
Painal, Bihta	09.09.2020	0	0	31	31
KVK Barh, Patna	17.09.2020	20	56	14	90
KVK Barh, Patna	21.09.2020	19	25	10	54
Agwanpur, Barh	22.09.2020	0	32	5	37
KVK Barh, Patna	25.09.2020	73	26	12	111
Ranabigha Barh	26.09.2020	0	27	8	35
Purai bagi, Barh	28.09.2020	0	28	0	28
Total		112	194	95	401

H. Garib Kalyan Rojgar Abhiyan Training, 2020

S.L	Title	Date	Course Coordinator	Venue	Others			SC/ST			Total		
					M	F	T	M	F	T	M	F	T
1	Vermicompost Production	02-04 July 2020	Dr. B.D Singh	KVK Patna	10	0	10	25	0	25	35	0	35
2	Mushroom Production	08-10 July 2020	Sri. Brajesh Patel	KVK Patna	14	0	14	21	0	21	35	0	35
3	Mushroom Production	06-08 Aug 2020	Dr. Brajesh Patel	KVK Patna	26	0	26	9	0	9	35	0	35
4	Farm Machinery Maintenance	12-14 Aug 2020	Dr. Mrinal Verma	KVK Patna	14	0	14	21	0	21	35	0	35
5	Nutri Garden	20-22 Aug 2020	Dr. Kumari Sharda	KVK Patna	25	0	25	10	0	10	35	0	35
6	Vegetable Production	24-26 Aug 2020	Sri Brajesh Patel	KVK Patna	24	0	24	11	0	11	35	0	35
7	Processing & Value Addition	24-26 Aug 2020	Dr. Kumari Sharda	KVK Patna	18	0	18	17	0	17	35	0	35
8	Vegetable Production	27-29 Aug 2020	Sri Brajesh Patel	KVK Patna	32	0	32	3	0	3	35	0	35
9	Skilling in Soil Testing	31 Aug-02 Sept 2020	Sri Rajeev Kumar	KVK Patna	27	2	29	6	0	6	33	2	35
10	Skilling in Soil Testing	03-05 Sept 2020	Sri Rajeev Kumar	KVK Patna	23	1	24	11	0	11	34	1	35
11	IFS	07-09 Sept 2020	Sri Brajesh Patel	KVK Patna	6	1	7	25	3	28	31	4	35
12	IFS	07-09 Sept 2020	Sri Rajeev Kumar	KVK Patna	5	0	5	30	0	30	35	0	35
13	Mushroom Production	10-12 Sept 2020	Sri Brajesh Patel	KVK Patna	5	0	5	25	5	30	30	5	35

14	Farm Machinery Maintenance	14-16 Sept 2020	Dr. Mrinal Verma	KVK Patna	8	0	8	21	6	27	29	6	35
15	Processing & Value Addition	17-19 Sept 2020	Dr. Kumari Sharda	KVK Patna	0	0	0	15	20	35	15	20	35
16	Nutri Garden	21-23 Sept 2020	Dr. Mrinal Verma	KVK Patna	6	3	9	10	16	26	16	19	35
Total					243	7	250	260	50	310	503	57	560

I. Special Programme.

S.No	Name of Programme	Date of Programme	Place of Programme	No. of Participant	Visit of VIPs.
1	State Level webinar on Krishi Poshan (Agri Nutrition)	17-19.08.2020	KVK, Patna (Virtual Mode)	1235	Dr. Ajay Kumar, Hon'ble VC , BAU, Sabour Sri Atul Prasad (IAS), Add. Chief Secretary Sri Alok Kumar (IFS), Director ICDS, Bihar. Dr. Anjani Kumar, Director, ATARI, Patna
2	Tree Plantation Awareness Programme.	17.09.2020	KVK, Barh	22	-
3	SAC Meeting	14.10.2020	KVK, Barh	32	Dr. Anjani Kumar, Director ATARI, Patna. Dr. R.N. Singh, ADEE, BAU, Sabour
4	Fertilizer Application Awareness Programme	22.10.2020	KVK, Barh	71	Dr. Anjani Kumar, Director ATARI, Patna Sri, Vijay Shankar, Jila Parishad, Member, Barh
5	World Soil Day	05.12.2020	KVK, Barh	67	Sri, Vijay Shankar, Jila Parishad, Member, Barh
6	PM Live telecast (Kisan Maandhan Yojana)	25.12.2020	KVK, Barh	162	
7	International Women's Day	08.03.2021	KVK, Barh	210	Sri, Vijay Shankar, Jila Parishad, Member, Barh
8	World Water Day	22.03.2021	KVK, Barh	853	Sri Sumit Kumar SDM, Barh

3. OFT 2020-21**OFT Result, 2020-21 Extension Education****OFT 01**

S.N.	Title	Content Analysis of the Farmers friendly print literature.
1	Problem Diagnose	Lack of technical knowledge for farmers as per need
2	Thematic area	Capacity Building
2	Source of technology	BAU, Sabour
3	Technology option:	TO ₁ – Existing agricultural technical knowledge TO ₂ – Extension literature provided by KVK TO ₃ –Extension Literature provided by other agencies
4	No. of Respondents	60
5	Performance Parameters	Level of knowledge gained, Adoption, Production and Income

Distribution of respondents according to the Socio-Personal and psychological characteristics (N = 60)

S. No.	Variables	Categories	Frequency	Percentage
1	Age	Young Age	28	46.67
		Middle Age	20	33.33
		Old Age	12	20.00
2	Level of education	Read & Write	3	5.00
		Middle School	13	21.67
		High School	21	35.00
		Intermediate	17	28.33
		UG/ & Above	6	10.00
3	Annual income	Low (Below 25,000)	9	15.00
		Medium (25,001 -50,000)	21	35.00
		High (50,001 & above)	30	50.00
4	Operational land holding	Marginal (up to 1 Ha)	11	18.33
		Small (Above1 & up to 2 Ha)	18	30.00
		Medium up to 5 ha	27	45.00
		Large above 5 ha	4	6.67
5	Social cohesiveness	Low	8	13.33
		Medium	36	60.00
		High	16	26.67
6	Mass media access	Low	7	11.67
		Medium	33	55.00
		High	20	33.33
7	Farming Experience (yrs.)	Low (<=5)	13	21.67
		Medium (5-10)	26	43.33
		High (>=10)	21	35.00
8.	Extension Contact (Score)	Low (<=2)	6	10
		Medium (2-4)	22	36.67
		High (>=4)	32	53.33

9.	Social Participation (Score)	Low (≤ 2)	7	11.67
		Medium (2-4)	23	38.33
		High (≥ 4)	30	50.00
10.	Innovativeness (Score)	Low (≤ 2)	6	10.00
		Medium (2-4)	23	38.33
		High (≥ 4)	31	51.67

Level of Knowledge gained

Technology option	No. of trials	Content of the literature	Format of the literature	Level of knowledge gained
TO ₁ – Existing agricultural technical knowledge	20	Poor	Unsystematic	16%
TO ₂ – Extension literature provided by KVK	20	Very good	Systematic & Well designed	46%
TO ₃ – Extension Literature provided by other agencies	20	Good	Systematic	38%

Extent of adoption and Economics of wheat cultivation

Technology option	No. of trials	Extent of adoption of farmers practices	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
TO ₁ – Existing agricultural technical knowledge	20	21%	30.54	36500	54972	25256	1.50
TO ₂ – Extension literature provided by KVK	20	45%	37.5	35000	67500	34500	1.92
TO ₃ – Extension Literature provided by other agencies	20	34%	32.5	36000	58500	27500	1.62

Results: The gross return and net return is higher in case TO₂ – (Extension literature provided by KVK) in local language than the Extension literature provided by other agencies to the farmers. Therefore, Extension literature in local language provided by KVK not only increase level of knowledge, but also increase level of adoption of new package of practices and income of the farmers.

OFT 02

S.N.	Title	Study on awareness and perception of farmers about Soil Health Card
1	Problem Diagnose	Farmers unawareness about soil health card benefits
2	Source of technology	BAU, Sabour
3	Technology option:	TO ₁ – Farmers not having Soil Health card TO ₂ – Farmers having soil health card and follow the recommendations TO ₃ – Farmers having soil health card but not following the recommendations
4.	No. of Respondents	60

4	Performance parameter	➤ Unable to calculate fertilizer dose as per the recommendation ➤ Awareness about SHC ➤ SHC is not in the Priority list of farmers ➤ Mindset about traditional fertilizer use pattern ➤ Constraints of capital at crucial time of farming ➤ Distance from Field to Lab ➤ Change in Productivity ➤ Waiting for others adoption success rate
---	-----------------------	---

Distribution of respondents according to their socio-personal, economic, communication & psychological profile

S.No.	Particulars	Category	Frequency (No)	Percentage (%)	Rank
1.	Age (yrs.)	Young (20 - 35)	14	25.00	III
		Middle (35 - 50)	28	45.00	I
		Old (50 & above)	18	30.00	III
2.	Gender	Male	60	89.17	I
		Female	0	10.83	II
3.	Caste	General	22	70.84	I
		OBC	32	20.83	II
		SC/ ST	6	08.33	III
4.	Education	Illiterate	04	14.17	IV
		Read & Write	09	07.50	V
		Primary School	07	06.67	VI
		Middle School	20	19.17	III
		Intermediate	12	24.16	II
		UG/ PG	06	28.33	I
5.	Occupation	Agriculture	60	65.00	I
		Service	01	04.17	IV
6.	Monthly Income (Rs.)	Below 10,000	14	07.50	III
		10,001 -1 5,000	29	39.17	II
		15,001 & above	17	53.33	I
7.	Family Size	Small (< = 5)	04	07.50	III
		Medium (5 - 10)	26	39.17	II
		Large (> 10)	30	53.33	I
8.	Type of House	Kachcha	6	20.83	III
		Pacca	35	35.83	II
		Mixed	19	43.33	I
9.	Land Holding Size (ha.)	Small (< = 2)	12	35.83	II
		Medium (2.1 - 4)	38	43.33	I
		Large (> = 4.1)	10	20.83	III
10.	Farming Experience (yrs.)	Low (<=5)	9	17.50	II
		Medium (5-10)	23	65.83	I
		High (>=10)	28	16.67	III
11.	Extension Contact (Score)	Low (<=5)	04	07.50	III
		Medium (5-10)	22	81.67	I
		High (>=10)	34	10.83	II
13.	Social Participation (Score)	Low (<=5)	01	00.83	III
		Medium (5-10)	37	75.84	I
		High (>=10)	22	23.33	II

14.	Innovativeness (Score)	Low (≤ 5)	06	10.00	III
		Medium (5-10)	34	76.67	I
		High (≥ 10)	20	13.33	II

Distribution of respondents according to awareness about SHC

1.	Low (≤ 5)	09	17.50	III
2.	Medium (5-10)	37	57.50	I
3.	High (≥ 10)	14	25.00	II
Total		60	100.00	

Distribution of respondents according to their awareness about utility of SHC

S.No.	Response	Frequency (No)	Percentage (%)	Rank
1.	Yes	53	79.17	I
2.	No	07	20.83	II
Total		60	100.00	

Distribution of respondents according to their perception regarding SHC

S.No.	Condition	Frequency (No)	Percentage (%)	Rank
1.	Less Favorable	08	12.50	III
2.	Favorable	33	82.50	I
3.	Most Favorable	19	05.00	II

Distribution of respondents according to their attitude towards SHC

S.No.	Attitude	Frequency (No)	Percentage (%)	Rank
1.	Positive	49	80.83	I
2.	Negative	11	19.17	II
Total		60	100.00	

Distribution of respondents according to their constraints expressed by farmers in utilization of SHC

S.No.	Constraints	Frequency (No)	Percentage (%)	Rank
1.	Unable to calculate fertilizer dose as per the recommendation	31		V
2.	SHC is not in the Priority list of farmers	56		I
3.	Mindset about traditional fertilizer use pattern	51		II
4.	Constraints of capital at crucial time of farming	46		VIII
5.	Distance from Field to Lab	43		III
6.	Change in Productivity	39		IV
7.	Waiting for others adoption success rate	29		VI
8.	Irregularity of extension services	19		VII

4. A. FLD 2020-21

[illegible]

6. Soil sample analyzed.

Details	No. of Samples	No. of Farmers	No. of villages
Soil sample analysis	542	542	25

7. Other extension activities

Activities & sub activities	No.	No. of Beneficiaries
Scientist visit to farmers field	189	706
Farmer's visit to KVK	812	812
Diagnostic Service	21	211
News paper coverage	16	Mass
Radio talk	06	Mass
Field Day	06	180
Kisan Goshthi	02	221
Advisory services/ Helpline services	956	956
Publication of Krishak Samachar	03	1500
Exposure Visit	03	108
Parthenium Awareness	02	44
Swacha Bharat Programme	04	165
International Yoga Day	01	19

Seed material produced at KVK, farm

S.N.	Crop	Variety	Area(ha)	Remarks (qt.)
Rabi (2019-20)				
1	Gram	PG186	5.0	31.20
2	Rai	RGN-48	2.0	19.60
3	Wheat	Sabour Samridhi	4.0	121.50
4	Wheat	Sabour Nirjal	2.3	59.20
5	Lathyrus	Ratan	0.2	2.0
6	Pea	IPFD-10-12	0.12	0.5
Summar (2019-20)				
7	Moong	IPM-2-3	2.6	3.10 (1 st Weight)
Kharif (2020-21)				
8	Ragi (Maduaa)	A-404	0.17	1.78 (1 st Weight)
9		BBM-10	0.08	0.45 (1 st Weight)
10	Paddy	Sabour Ardhjal	3.4	100 (1 st Weight)
		R. sweta	0.7	25 (1 st Weight)
Rabi (2019-20)				
11	Wheat	Sabour Nirjal	3.6	
12		HD-2967	2.5	
13	Rai	RGN-48	1.0	
14	Lentil	HUL-57	1.4	
15	Chickpea	PG-186	4.1	

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Provided to number of farmers
------	---------	---------------------------	-------------------------------

Fruits			
Lime	Kagaji	2500	Ready for sale
Fodder crop saplings	Napier grass	1000	100
Others, pl.specify	Cycus & Crotons	2500	200

Action Plan: April, 2021 to September, 2021

Home Science

Thema tic Area	Title of Training	Qr. No.	Durati on	Venue OFF/O n Campu s	Tentat ive Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Rural Youth														
Value addition	Value addition Mushroom	1 st Qu arte r	01	ON/OFF		5	0	0	0	15	0	20	0	20
Value addition	Value addition Mango.	1 st Qu arte r	01	ON/OFF		5	0	0	0	15	0	20	0	20

1. Agricultural Engineering

Thema tic Area	Title of Training	Peri od	Durati on	Venue OFF/O n Campu s	Tentat ive Date	Participants/Trainees								
						SC		ST		Othe r		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Use of plastic in farming practices	Use f poly house/ poly tunnel for seedling raising	Ist qua rter (Jan - Mar ch)	2	ON/OFF F		2	0	0	0	23	0	25	0	25
do	Plastic mulching in vegetable crops	-Do-	2	ON/OFF F		3	0	0	0	27	0	30	0	30
Micro-irrigation	Use of drip irrigation in vegetable production	-Do-	2	ON/OFF F		5	0	0	0	15	0	20	0	20
Other	Advantages of summer ploughing	IInd Qtr(Apr - Jun e)	2	ON/OFF F		3	0	0	0	17	0	20	0	20

Other	Mechanization of harvesting and threshing of wheat	-Do-	2	ON/OFF		3	0	0	0	17	0	20	0	20
Rural Youth														
RCT	Mechanization of farm implements	1 st Quarter	5	ON/OFF		3	0	0	0	17	0	20	0	20
Repair of maintenance of farm implements	Repair and maintenance of different farm machinery	2 nd Quarter	5	ON/OFF		3	0	0	0	17	0	20	0	20
Extension Functionaries														
Micro Irrigation	Adoption of Drip/Sprinkler system by farmers	1 nd Quarter	1	ON/OFF		0	0	0	0	15	0	15	0	15
Protected cultivation	Zero tillage technology	-3 rd Quarter	1	ON/OFF		0	0	0	0	15	0	15	0	15

2. Extension Education

Themat ic Area	Title of Training	Qrt . No.	Durati on	Venue	Tentati ve Date	Participants/Trainees									
						SC		ST		Othe r		Total			
						M	F	M	F	M	F	M	F	T	
Practicing Farmer															
Group dynami cs	Need and importance of farmers club/SHG	1 st Qu arte r	2	ON/OFF		3	0	2	0	10	5	15	5	20	
Formati on and manage ment of SHGs	Formation and management of SHG	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20	
Leaders hip Develo pment	Importance of leadership in the development of Agriculture	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20	
Mobiliz ation of social capital	Effective utilization of social & natural resources.	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20	

Entrepreneurial development of Farmers / youth	Development of entrepreneurship skill among Farmers	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20
Group dynamics	Need and importance of farmers club/SHG	2 nd Quarter	2	ON/OFF		3	0	2	0	10	5	15	5	20
Formation and management of SHGs	Formation and management of SHG	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20
Leadership Development	Importance of leadership in the development of Agriculture	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20
Mobilization of social capital	Effective utilization of social & natural resources.	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20
Entrepreneurial development of Farmers / youth	Development of entrepreneurship skill among Farmers	- do-	2	ON/OFF		3	0	2	0	10	5	15	5	20
Rural youth														
Vermin culture	Vermin composting	1 st Quarter	3	ON/OFF		3	0	2	0	15	5	20	5	25
Entrepreneurship	Role of Entrepreneur in Agriculture	- do-	3	ON/OFF		3	0	2	0	15	5	20	5	26
ICT	Use of ICT in Agriculture	2 nd Quarter	3	ON/OFF		3	0	2	0	15	5	20	5	27
Integrated farming System	Goatery	- do-	3	ON/OFF		3	0	2	0	15	5	20	5	25
Extension Functionaries														
Formation and management of	Need and Importance of SHG / Farmers club	1 st Quarter	2	ON		5	0	0	0	15	0	20	0	20

SHGs														
Group dynamics	Significance of Group Farming	1 st Quarter	2	OFF		5	0	0	0	15	0	20	0	20
Market led Extension	Use of ICT Tools for market access.	2 nd Quarter	2	OFF		5	0	0	0	15	0	20	0	20
Leadership Development	Role & Importance of Leaders in managing Groups	2 nd Quarter	2	ON		5	0	0	0	15	0	20	0	20

3. Plant Protection

Themat ic area	Title of Training	Quarte r	Durat ion	Venue	Tentati ve Date	Participants								
						SC/S T				Othe r		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
IPM	Management of diamond back moth in cauliflower	1 th Quarter	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of major disease of mango	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of early and late blight of potato	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IPM	Management of aphids in oilseed crops	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of leaf curl disease of tomato	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of mal formation in mango	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IPM	Management of stem borer in maize	2 nd Quarter	2	OFF		2	1	0	0	15	2	17	3	20

IDM	Integrated disease management in vegetable crops	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
Product ion of bio control agent and bio pesticid e	Importance of NPV in controlling fruit and shoot borer of Brinjal	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IPM	Management of stem borer in paddy	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of bacterial leaf blight in paddy	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IPM	Management of damping off in nursery of vegetable crop	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
Rural youth														
Crop diversifi cation	Button mushroom cultivation	1 st Quarter	3	ON		2	1	0	0	15	2	17	3	20
Crop diversifi cation	Button mushroom cultivation	-Do-	3	ON		2	1	0	0	15	2	17	3	20
Crop diversifi cation	Oyster mushroom cultivation	-Do-	3	ON		2	1	0	0	15	2	17	3	20
Crop diversifi cation	Milky Mushroom cultivation	2 nd Quarter	3	ON		2	1	0	0	15	2	17	3	20
Crop diversifi cation	Milky Mushroom cultivation	-Do-	3	ON		2	1	0	0	15	2	17	3	20
Crop diversifi cation	Paddy straw mushroom cultivation	-Do-	3	ON		2	1	0	0	15	2	17	3	20
Extension functionaries														
IPM	Management of early and late blight of potato	1 st quarter	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of nematode problem in soil	-Do-	2	OFF		2	1	0	0	15	2	17	3	20

IDM	Management of anthracnose and die back disease in mango	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IPM	Management of major insect pest of vegetable crops	2 nd quarter	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of major disease of paddy	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of collar rot disease of papaya	-Do-	2	OFF		2	1	0	0	15	2	17	3	20

4. Soil Science

Thematic area	Title of Training	Quarter	Duration	Venue	Tentative Date	Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Soil health and fertility management	Importance of balanced fertilizer application in onion production	1 st Quarter	2	OFF		4	1	0	0	18	2	22	3	25
Soil and water testing	Importance of soil and water testing for better crop production	-Do-	2	OFF		4	1	0	0	18	2	22	3	25
Integrated nutrient management	Integrated nutrient management in paddy	-Do-	2	OFF		4	1	0	0	18	2	22	3	25
Production and use of organic input	Vermicompost production techniques	-Do-	2	ON		4	1	0	0	18	2	22	3	25
Micronutrient deficiency in crop	Importance of secondary and micronutrient in crop production	-Do-	2	OFF		4	1	0	0	18	2	22	3	25
Soil and water testing	Importance of soil and water testing for better crop	-Do-	2	OFF		5	0	0	0	18	2	23	2	25

[illegible]

Soil health and fertility management	Fertilizer recommendation for rice through crop manager (webapp)	1 st quarter	1	OFF		2	0	0	0	16	2	18	2	20
Integrated nutrient management	Integrated nutrient management in Paddy	-Do-	1	OFF		2	0	0	0	16	2	18	2	20
Micronutrient deficiency in crops	Fertilizer recommendation for rice through crop manager (webapp)	2 nd quarter	1	ON		2	0	0	0	16	2	18	2	20
Integrated nutrient management	Role of green manuring in soil fertility management	-Do-	1	OFF		2	0	0	0	16	2	18	2	20

12. Frontline demonstration to be conducted* 2021

Sl. No	Season	Crop	Variety	Area in ha.	No. of Demonstration
1	Kharif	Paddy	R. Sweta	12	
2		Madua		0.25	
3		Turmeric	R. Sonia	01	
4		Fodder crop	Napier	02	
5	Rabi	Wheat	HD- 2967	04	
6		Mushroom	Oyster, Button, Milky	100 kg.	
7		Vegetable Seed	Nutrigarden	100 pkt.	100
8		Sodium Benzoate		500 gm	25 farmers
9		Citric Acide		500 gm	25 farmers
10		Potassium meta bisulphate		500 gm	25 farmers

Extension Activities

Nature of Extension Activity	No. of activities	Total		
		Male	Female	Total
Field Day	16	220	110	330
KisanMela	4	100	50	150
KisanGhosthi	11	100	50	150
Method Demonstrations	10	50	10	60
Group meetings	8	200	100	300
Lectures delivered as resource persons	5	100	50	150
Advisory Services	150	200	100	300
Scientific visit to farmers field	40	80	40	120
Diagnostic visits	300	200	50	250

Exposure visits	2	100	25	125
Soil health Camp	2	400	100	500
Soil test campaigns	2	300	100	400
Scientific visit to farmers field	35	781	241	1022
Farmers visit to KVK	500	800	300	1100
Swatchta Hi Sewa	15	450	154	604

12. On-farm trials to be conducted*

ON FARM TRIAL (2021-22)

OFT: 1 (Agricultural Engineering)

1	Title of On Farm Trial	Assessment of different bag storage method to minimize losses in storage
2	Problem diagnosed	Post-Harvest losses in storage.
3	Details of Technologies selected for Assessment	Farmers Practice- Storage in Plastic Bag Tech Option I- Storage in thin PVC bag and putting in Plastic Bag Technology Option II- Storage in Hermetic Bag and putting in Plastic Bag
4	Source of Technology	University of Illinois, USA, BAU Sabour
5	Performance Indicator	Moisture Content %, Germination Rate %, Storage Loss%, BC ratio
6	Replication	10
7	Production system and thematic area	Pulse- Fallow
8	Constraints identified	Storage loss during storage of pulses resulting poor income
9	Process of Farmer Participation	

OFT: 2 (Agricultural Engineering)

1	Title of On Farm Trial	Assessment of different Mulching Materials in production of Vegetables
2	Problem diagnosed	Weed problem as well as water management.
3	Details of Technologies selected for Assessment	Farmers Practice- Without Mulching Tech Option I- Mulching with paddy straw Technology Option II- Mulching with Plastic Mulching Material
4	Source of Technology	BAU Sabour
5	Performance Indicator	No of irrigation, weed population/m ² , yield q/ha & BC ratio
6	Replication	10
7	Production system and thematic area	Pulses- Vegetables
8	Constraints identified	High cost of weeding and water utilization.
9	Process of Farmer Participation	

OFT: 3 (Extension Education)

1	Title	Impact of Community Radio Programme on awareness (knowledge) related to Nutritional and health wellbeing of Radio listener
2	Problem diagnosed	Low awareness level on Nutrition and health wellbeing among Listeners (Daily life experience, books and newspaper and TV/radio are the main sources of information as coated by Information Sources and Awareness Level of Rural Communities on Food and Nutrition Security Discussion Paper 7 (MANAGE-Centre for Agricultural Extension Innovations, Reforms, and Agripreneurship (CAEIRA))
3	Details of Technology	Tech Option I – Farmers listening Community Radio Tech Option II - Farmers listening other media
4	Source of technology	C.R. Compendium
5	No. of Farmers	50 Radio listener
6	Production system and Thematic Area	Capacity Building
7	Constraints identified and Feedback of research	
8	Performance of Technology Performance Indicator	Change in Nutritional awareness (knowledge), Change in awareness (knowledge) related to health wellbeing due to listening of C.R.
9	Process of Farmers Participation & their reaction	

OFT: 4 (Extension Education)

1	Title	Study on awareness and perception of farmers about Soil Health Card In Paddy cultivation.
2	Problem diagnosed	Low awareness about benefits of Soil Health Card among farmers
3	Details of Technology	Tech Option I - Farmers having no Soil Health Card Tech Option II - Farmers having Soil Health Card but not follow the recommendation. Tech Option III - Farmers having Soil Health Card and follow the recommendation.
4	Source of technology	BAU, Sabour, Bhagalpur
5	No. of Farmers	20
6	Production system and Thematic Area	Capacity Building
7	Performance of Technology with performance indicator	Awareness about SHC, Difficulty in calculation of Fertilizer dose, Change in pattern of fertilizer use and Yield
8	Final Recommendation for Micro level Situation	
9	Process of Farmers Participation and their reaction	

OFT : 5 (Plant Protection)

1	Title	Crop residue management through mushroom production.
---	--------------	--

2	Problem diagnosed	Mustard straw is not suitable for cattle feed and farmers used to burn in the Field after threshing leads to environmental pollution and hazzard to soil health.
3	Technological option	Farmers Practice: - Use of wheat straw as substrate for oyster mushroom production (P. florida) Technology option-I: - 50% Wheat straw + 50% Mustard straw as substrate. Technology option-II: - 75% Wheat straw + 25% mustard straw as substrate. Technology option-III: - 50% Wheat straw + 50% mustard straw supplemented with 20gm besan / kg straw.
4	Source of Technology	NCMR Solan
5	Replication	5
6	Production system and thematic area:	
7	Performance of the technology with performance indicators	Yield disease appearance Size of fruit.
8	Constraints identified	
9	Process of Farmer Participation	
10	Critical Input.	Critical Input :- Mushroom Spawn, P.P. Bag, Formaldehyde.

OFT-: 6 (Plant Protection)

1	Title	Evaluation of different fungicide for controlling Foot rot (Sclerotinia sclerotiorum) of coriander cultivated in raing season.
2	Problem diagnosed	Coriander is cultivated in raing season for leaf purpose in the district suffers severe problem of Foot rot leads to heary economic loss to the farmers.
3	Technological option	Farmers Practice: - No seed & soil treatment only Foliar spray of mancozeb @ 2 gm/lit water. Technology Option-I: Seed treatment with T. Viridae @ 6 gm/kg seed and soil treatment with T. viridea @ 4 kg/ha. Technology Option-II: Seed & soil treatment with T. viridae + Foliar spray of sulfex @ 3 gm/lit water at 15 days interval. Technology Option-III: Seed & soil treatment with T. Viridea + foliar spray of metalaxyl @ 1 gm/ lit. water at 15 days interval.
4	Source of Technology	BAU, Ranchi
5	Replication	5 (200m ²)
6	Production system and thematic area:	
7	Performance of the technology with	Disease Incidance, Yield, Net Income

	performance indicators	& B:C Ratio
8	Constraints identified	
9	Process of Farmer Participation	
10	Critical Input	Seed, Chemical

OFT: 9 (Soil science)

1	Title	Evaluation of phosphate management through different sources for enhancing productivity of Arhar in Patna district.
2	Problem diagnosed	Poor nutrient management Practices leads to low yield and profitability
3	Technological option	Farmers Practice- No fertilizer application in Arhar crop. Technological Option I:- RDF i.e use of N @ 20 kg/ha, P ₂ O ₅ @ 40 kg/ ha (basal) and K ₂ O @ 20 kg/ ha (basal) (Through DAP and MOP) Technological Option II:- Seed treatment with Rhizobium and PSB, 40 Kg P ₂ O ₅ /ha P ₂ O ₅ through SSP and 20 Kg K ₂ O/ha through MOP. (In all technological option seed treatment will be done as per standard Practice, Pheromone trap will be used @10 trap/ha)
4	Source of Technology	BAU, Sabour
5	Replication	07
6	Production system and thematic area:	Maize/Arhar - Green gram
7	Performance of the technology with performance indicators	No. of Branch / Plant, No. of Pod / Branch, No. of seed / pod, yield (q/ha), B:C ratio
8	Constraints identified	
9	Process of Farmer Participation	

OFT: 10 (Soil science)

1	Title	Evaluation of Sulphur and Boron Application in mustard on crop yield.
2	Problem diagnosed	Deficiency of Sulphur and Boron leads to poor crop yield of mustard.
3	Technological option	Farmers Practice: Use of N @ 75 kg/ha P ₂ O ₅ @ 55 kg/ha. TO I- RDF i.e use of N @ 60 kg/ha (1/2 basal + 1/2 at flowering stage) P ₂ O ₅ @ 40kg/ha (basal) K ₂ O@ 40 kg/ha (basal) TO II- RDF+20kg/S/ha TO III- RDF+ 20kg/S/ha+1 kg/ B/ha.
4	Source of Technology	BAU, Sabour
5	Replication	06
6	Production system and thematic area:	Rice- Mustard/Wheat- Green gram
7	Performance of the technology with performance indicators	No. of branch / plant, No. of pod / branch, No of seed / Siliqua, yield (q/ha), B:C ratio
8	Constraints identified	
9	Process of Farmer Participation	