Action Plan (January to December 2023)

1. TECHNICAL PROGRAMME

1.1. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
3	9	30.00	75

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
47	1205	-	-

Seed Production (Qtl.)			Planting material (Nos.)	Fish seed prod. (No's)	Soil Samples
(5)			(6)	(7)	(8)
Crop		Qtls.			
Groundnut	GJG-32	20	100	-	100
Sesame	GT-6	07			
Black gram	GU-2	08			
Pigeon Pea	GJP-1	10			
Cumin	GC-4	12			
Onion	GWO-3	01			
Garlic	GJG-5	40			

1.1. Operational areas details proposed during 2023

No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Bt. cotton	Sucking Pest, Para Wilt, Pink Boll Worm	1,12,000 ha	Halvad, Tankara, Wakaner, Morbi block	FLD on pink boll worm management. Training on pink boll worm management
2	Groundnut	White Grub Stem Root	42,000 ha	Tankara , Halvad block	OFT on White grub management in groundnut. Training on pest and Disease management in groundnut.
3.	Cumin	Wilt and Blight	3900 ha	Morbi, Halvad, Maliya	FLD and OFT on Wilt management and also training for IDM in Cumin.
4	Pomegranate	Seed rot and nematode	1000 ha	Morbi, Halvad and Maliya	Training programmed and crop seminar
5	Chickpea	Wilt and Blight	2600	Morbi, Halvad and Maliya	Training programmed and crop seminar

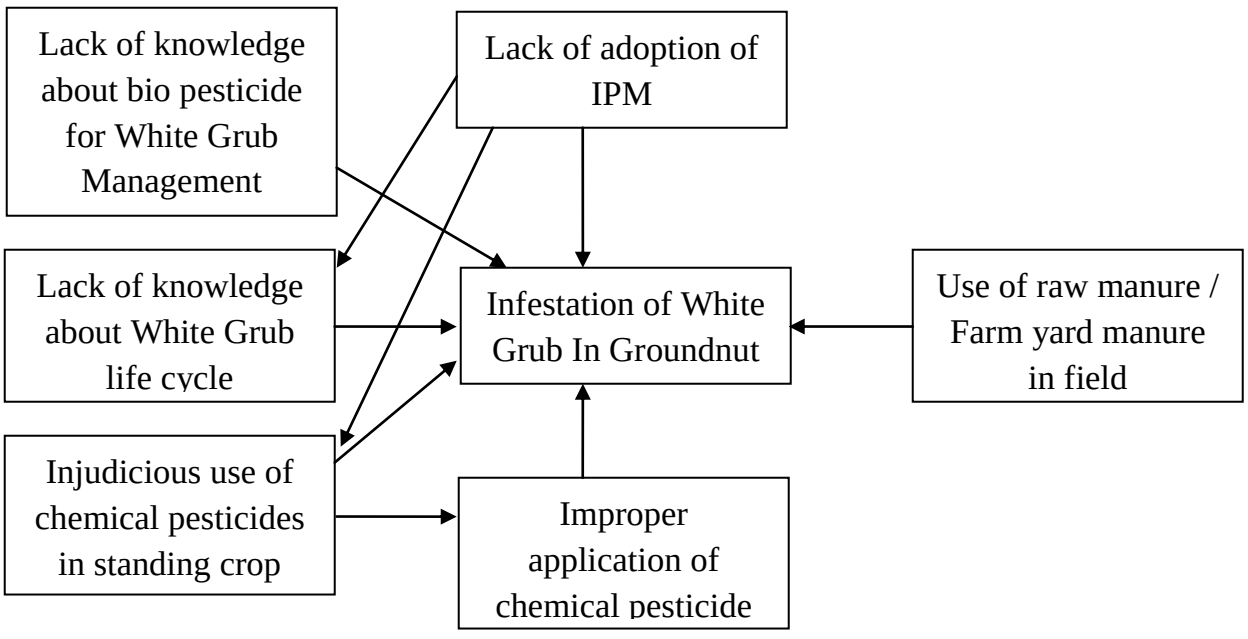
* Support with problem-cause and interventions diagram

1.2.Technologies to be assessed and refined

OFT- 1

Management Of White Grub In Groundnut	
Prioritized problem	Low yield due to infestation of white grub
Thematic area	Integrated pest management
Objective	To minimize the infestation of white grub in groundnut.
Treatment	1) Sowing of groundnut without seed treatment. (Farmers Practice). 2) Seed treatment with imidacloprid 600 F.S. 4 ml/kg seed. (JAU Reco.2020) 3) Soil application of *metarhizium anisoplii* @ 5 kg/ha with 300 kg/ha castor cake at the time of sowing (JAU Reco.)
Source of technology	JAU
Name of critical input	Imidacloprid 600 F.Sand *Metarhizium anisoplii* Castor cake 50kg
Qty per trial	Imidacloprid 600 F.S. 100m land *Metarhizium anisoplii 1KG*
Cost per trial	2000/-
No. Of trials	3
Total cost for the OFT (Rs.)	6000/-
Experimental plot size	1 acre
Parameters to be studied	1) Yield 2) No. of infested plant in 1 sq. Mt. Area at 75 days after sowing, BC Ratio
Team members	1) Shri D.A. Saradava, 2) Dr. L. L. Jivani

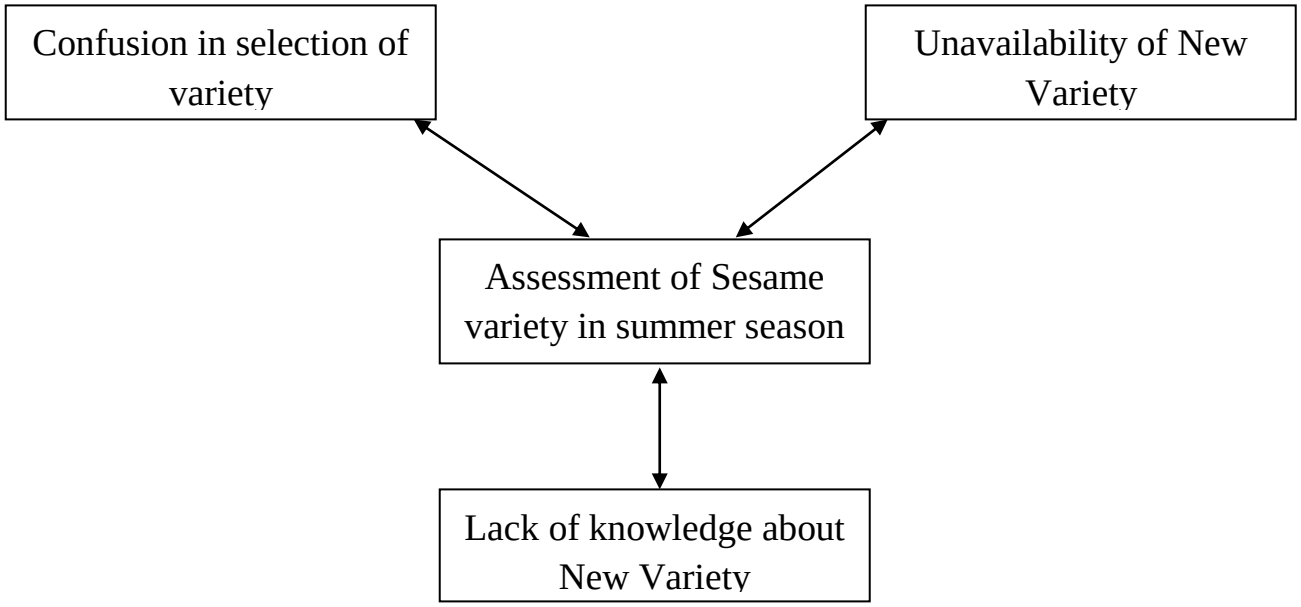
Management of White Grub in Groundnut Crop Diagram



OFT - 2

Assessment of New Variety of Sesame	
Prioritized problem	Low yield of sesame in summer
Thematic area	New Variety
Objective	To find out the suitable variety of the Sesame summer season.
Treatment	1) G Til–2 or Local (Farmer Practice). 2) G Til-3 (JAU Recommendation for summer) 3) G Til–5 (JAU Recommendation for summer)
Source of technology	J.A.U.
Name of critical input	Sesame Seed G Til-3 & G Til-5
Qty per Trial	2 Kg
Cost per Trial	300/-
No. Of Trials	5
Total Cost for the OFT(Rs.)	1500/-
Experimental plot Size	1 Acre
Parameters to be studied	(1) Yield 2) No. pod/plant (3) Branches/plant(4)B:C Ratio
Team members	Dr. L.L.Jivani

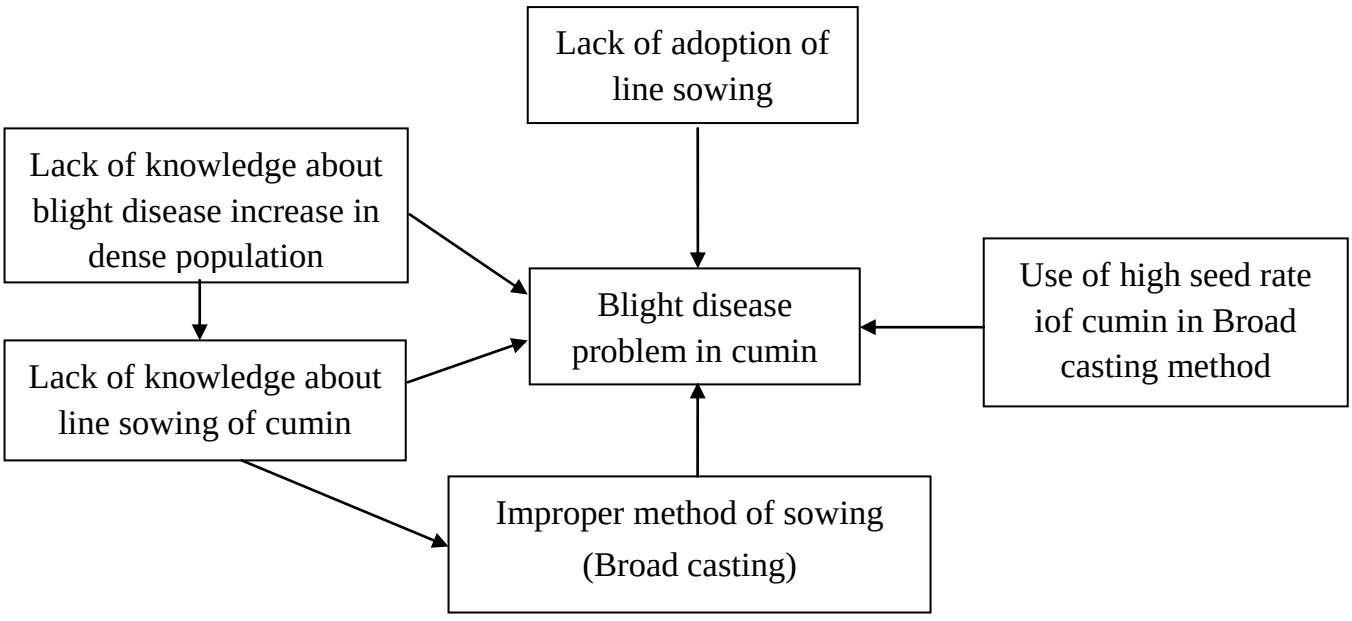
Assessment of New Variety of Sesame Diagram



OFT- 3

Minimize The Disease Intensity Through Line Sowing In Cumin Crop	
Prioritized problem	Fifteen to twenty percent yield reduction in due to blight disease
Thematic area	Integrated Disease Management
Objective	1) Minimize the disease intensity 2) Even seed distribution 3) Reduce the seed rate
Treatment	1) Sowing of cumin with broad casting method (Farmer practice) 2) Sowing of cumin at 30 distance between two raw (Recommended practices.) 3) Sowing of cumin at 15 cm distance between two raw (Intervention).
Source of technology	J.A.U.
Name of critical input	Seed of cumin GC-4
Qty per Trial	6 Kg
Cost per Trial	1200/-
No. Of Trials	3
Total Cost for the OFT(Rs.)	3600/-
Experimental plot Size	1 Acre
Parameters to be studied	1) Yield 2) Percentage of incidence of blight disease in 1 sqmt area at 75 days after sowing and BC ratio
Team members	1) Dr. K.N. Vadaria, 2) Dr. L.L. Jivani

Minimize The Disease Intensity Through Line Sowing In Cumin Crop Diagram



1.3. Front Line Demonstrations

A. Details of FLDs to be organized

No	Crop	Variety	Thematic Area	Technology For Demonstration	Critical Inputs With Cost (Rs.)	Season And Year	Area (Ha)	No. Of Farmers/ Demon.	Parameters Identified
1	Groundnut	-	INM	Seed treatment of *Rhizobium* Leguminosarum Isolated-1 a 10 ml/kg seed	4800/-	*Kharif*-2023	4.0	10	Yield, B:C Ratio, Farmers Perception
2	Cotton	Bt. cotton	IPM	Integrated management of Pink boll worm in cotton spraying of *Beauveriabassian* and Installation of pheromone traps	12000/	*Kharif*-2023	4.0	10	Yield, B:C Ratio, Farmers Perception
3	Black gram	GU-2	New Variety	New variety of black gram GU-2	6000/-	Kharif-2023	4.0	10	Yield, B:C Ratio, Farmers Perception
4	Chickpea	GG–5\GJG-3	INM	Seed treatment of *Rhizobium* Leguminosarum Isolated-1 a 10 ml/kg seed	22500/-	Rabi-2023-24	4.0	10	Yield, B:C Ratio, Farmers Perception
5	Cumin	GC–5	New Variety	New variety of cumin GC - 5	15000/-	Rabi-2023-24	2.0	5	Yield & B:C Ratio , Farmers Perception
6	Pearl Millet	GHB-1129	New Hydrid/ Variety	New Bio fortified hybrid of Pearl millet	2000/	Summer-2023	2.0	5	Yield, B:C Ratio, Farmers Perception
7	Sesame	GT-6	New Variety	New variety of sesame GT-6	3000/-	Summer-2023	4.0	10	Yield, B:C Ratio, Farmers Perception
Total					**65300/-**		**24**	**60**	

Sponsored Demonstrations (CFLDs on O & P / Others)

S. No.	Crop	Variety	Season and Year	Area (ha)	No. of farmers
1	Tomato	GT-6	*Rabi*-2023-24	4.0	10
2	Garlic	GJG-5	*Rabi*-2023-24	0.8	2
3	Coriander	GCr-3	*Rabi*-2023-24	1.2	3
			Total	**6.0**	**15**

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	2	Aug. and Dec.	50
2	Farmers Training	2	Sep. and Oct.	55
3	Media coverage	1	Sep.	-
4	Training for extension functionaries(ATMA-Morbi)	1	Jul.	35

1.4 Training (Including the sponsor and FLD training programmes)

I) On Campus Training (For Practicing Farmers, Farm Women & Rural Youth)

Date	Clients	Title Of The Training Programme	Duration In Days	No. Of Participants			Number Of SC/ST			Grand Total
				M	F	T	M	F	T	
Crop Production										
January	PF	Production and processing of pearl millet	1	22	00	22	03	00	03	**25**
February	PF	Importance and use of bio fertilisers	1	22	00	22	03	00	03	**25**
March	PF	Importance and criteria for natural farming	1	22	00	22	03	00	03	**25**
April	PF	Production technology of different millet crops.	1	22	00	22	03	00	03	**25**
July	PF	Integrated nutrient management in *kharif* crops	1	22	00	22	03	00	03	**25**
September	PF	Preparation of *Jivamrut* and its role in crop production	1	22	00	22	03	00	03	**25**
Horticulture										
January	PF	Seed production technology in vegetable crops	1	20	04	24	00	01	01	**25**
August	PF	Raising of vegetable nursery	1	20	04	24	00	01	01	**25**
Live Stock Production : Nil										
Agri. Engineering : Nil										
Home Science :										
August	PF	Preparation of dishes from différent millets.	1	00	24	24	00	01	01	**25**
Plant Protection										
January	PF	Insect pest & disease management in *rabi* crops.	1	22	00	22	03	00	03	**25**
February	PF	Insect pest management in natural farming	1	22	00	22	03	00	03	**25**
May	PF	Seed treatment for pest and disease management in *kharif* crops.	1	22	00	22	03	00	03	**25**
July	PF	Plant protection measures in natural farming	1	22	00	22	03	00	03	**25**
August	PF	Pest & disease Management in *kharif* crops.	1	22	00	22	03	00	03	**25**
Fisheries – Nil										
Soil Health										
April	PF	Importance of soil analysis.	1	22	00	22	03	00	30	**25**

II) Off Campus Training (For Practicing Farmers, Farm Women & Rural Youth)

Date	Clientele	Title Of The Training Programme	Duration In Days	Number Of Participants			Number Of SC/ST			Grand Total
				M	F	T	M	F	T	
Crop Production										
January	PF	Importance and criteria for natural farming	1	22	01	23	02	00	02	**25**
April	PF	Benefits of *jivamrut* and *ghanjivamrut*	1	22	00	22	03	00	03	**25**
May	PF	Importance of soil analysis.	1	21	01	22	03	00	03	**25**
June	PF	Integrated nutrient management in *kharif* crops	1	21	01	22	03	00	03	**25**
July	PF	Importance and criteria for natural farming	1	21	01	22	03	00	03	**25**
October	PF	Integrated nutrient management in *rabi* crops	1	21	01	22	03	00	03	**25**
November	PF	Weed management in *rabi* crops	1	21	01	22	03	00	03	**25**
December	PF	Irrigation management in *rabi* crops	1	21	01	22	03	00	03	**25**
Horticulture										
July	FW	Raising of vegetable nursery	1	00	23	23	00	02	02	**25**
September	PF	Scientific cultivation of spices crops.	1	21	1	22	02	01	03	**25**
Soil Health										
February	PF/FW	Importance of soil health card and soil & water testing	1	22	1	23	2	00	2	**25**
July	PF	Information regarding Bio-fertilizer application in different crops.	1	22	00	22	03	00	03	**25**
August	PF	Plant nutrients and its management	1	22	00	22	03	00	03	**25**
December	PF	Role of different macro and micro nutrient	1	22	00	22	03	00	03	**25**
Agri. Engineering: Nil										
Home Science : Nil										
Plan Protection										
January	PF	Insect pest & disease management in *rabi* crops.	1	22	02	24	01	00	01	**25**
February	PF	Store grain pest and their management and precautions	1	21	00	21	04	00	04	**25**
March	PF	Seed treatment for pest management in *kharif* crops.	1	23	00	23	02	00	02	**25**

Date	Clientele	Title Of The Training Programme	Duration In Days	Number Of Participants			Number Of SC/ST			Grand Total
				M	F	T	M	F	T	
April	PF	Integrated pest & disease management in *kharif* crops.	1	20	03	23	02	00	02	**25**
May	PF	Pest and disease management through different component of Natural farming e.g. Agniastra & Nimastra.	1	22	01	23	02	00	02	**25**
July	PF	Insect pest management in organic farming	1	22	00	22	03	00	03	**25**
August	PF	Role of predator and parasite in pest management.	1	22	00	22	03	00	03	**25**
September	PF	Integrated insect-pest & disease management in horticultural crops	1	25	00	25	00	00	00	**25**
October	PF	Pest & disease management in vegetable and horticulture crops	1	23	00	23	02	00	02	**25**
Fisheries – Nil										

III) Vocational Training : Nil

IV) Extension Functionaries Training

Date	Clientele	Title Of The Training Programme	Duration In Days	No. Of Participants			Number Of SC/ST			Grand Total
				M	F	T	M	F	T	
On Campus										
June	PF	Integrated pest management in *kharif* crop	1	34	03	37	03	00	03	**40**
October	PF	New recommendation and package of practice of rabi crops	1	34	03	37	03	00	03	**40**

V) Sponsored / Collaborative Training With Other Organization

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 Programme											
Crop Production	ATMA-Morbi	PF	Management of macro and micro nutrient in natural farming	1	23	00	23	02	00	02	**25**
Plant Protection	ATMA-Staff	PF	Different IPM modules for relevant crops.	1	24	00	24	01	00	01	**25**
Plant Protection	DAO-Morbi	PF	Insect & disease management through seed treatment.	1	25	00	25	00	00	00	**25**
Horticulture	ATMA-Morbi	PF	Scientific cultivation of spices crops.	1	21	00	21	04	00	04	**25**
Horticulture	Reliance Foundation	PF	Improved varieties and their characteristic of vegetable crops developed by SAUs	1	24	00	24	01	00	01	**25**
Crop Production	ATMA-Morbi	PF	Different criteria for natural farming	1	22	01	23	02	00	02	**25**
Crop Production	ATMA-Morbi	PF	Importance and use of bio fertilizer	1	22	00	22	03	00	03	**25**
			Total	**7**	**161**	**1**	**162**	**13**	**0**	**13**	**175**
b) Sponsored Research Programme – Nil											
c) Any Special Programmes – Nil											

1.5 Extension Activities

Sr. No.	Activity	Proposed No.
1	KisanMela	1
2	Field Day	2
3	KisanGhosthi	10
4	Radio Talk	As and when required
5	TV Show	As and when required
6	Film Show	-
7	Animal Health Camp	-
8	Improved Implements Demonstration	1
9	KhedutShibir	5
10	KisanMahila Meeting	2
11	News Paper Coverage	As and when required
12	Popular Articles	5
13	Extension Literature	5
14	Advisory Service	As and when required
15	Ex-Trainee Sammelan	-
16	Seminar	-
17	PashuMela	-
18	Exhibition	1
19	Night Meeting	2
20	Celebration Of Technology Week	1

1.6. Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
OILSEEDS	Groundnut	GJG-32	20
PULSES	Black gram	GU-2	08
	Chickpea	GG-5	10
	Pigeon Pea	GJP-1	10
OTHERS (Specify)	Cumin	GC-4	12
	Garlic	GJG-5	40
	Onion	GJWO-3	01

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Jamun	Ravni	50
VEGETABLES	Drum Stick	Jyoti	50

2. Literature to be developed / published

Subject

- **Plant Protection :-** Pamphlets – 3
- **Agronomy :-** Folder – 1
- **Horticulture :-** Pamphlets – 1

A. KVK News Letter

Date of start :-01-04-2023

Number of copies to be published :-Every Three Month on JAU site

B. Literature developed/published

Sr.No.	Topic	Number
1	Research papers	01
2	Technical reports	06
3	News letters	04
4	Training manuals	01
5	Popular articles	05
6	Extension literature	05
Total		**22**

C. Success stories/Case studies identified for development as a case

(Based on previous years success)

S. No.	Title of success story / case study identified	Proposed month for case/story to be prepared/ developed
1	Crop Diversification	April
2	Value addition	November

4. LINKAGES

4.1. Functional linkage with different Organizations

Sl.No.	Name of organization	Nature of Linkage (pl. specify)
1	District Agriculture Office (Morbi)	Most of the Organizations are members of Scientific Advisory Committee (SAC) of KVK and have linkage with different activities of KVK viz., Training Programme, KhedutSibir, Farmers day, Farmers fair, Film Show, Ex-training meeting and Soil health card etc.
2	Dy. Director of Agril. Extension (FTC)	
3	Dy. Director of Horticulture	
4	Dy. Director of Animal Husbandry	
5	Anandi Sanstha	
6	Shree Divya Jyoti Gram Vikas Kelavani Mandal - Morbi	
7	National Bank for Agriculture & Rural Development (NABARD)	
8	ATMA	
9	Petroleum Conservation of India	
10	District Waterside Development Unit (Morbi)	

4.2. Details of linkage with ATMA

a) Is ATMA implemented in your District. Yes/No **Yes**

S. No.	Programme	Nature of linkage
1	Field Visit	Field visit for current field problems
2	Training	Training at village

Details of budget estimate (2023-24) based on proposed action plan

No.	Particulars	BE 2023-24 proposed (Rs.)(Lac)
1	**Recurring Contingencies**	
1.1	**Pay & Allowances**	**92.4**
1.2	**Traveling allowances**	**1.1**
1.3	**Contingencies**	
A	Stationery, telephone, postage and other expenditure on office running, publication of newsletter and library maintenance (purchase of news paper& magazines)	7.7
B	Pol, repair of vehicles, tractor and equipments	2.2
C	Meals/refreshment for trainees (ceiling up to rs.40/day/trainee be maintained)	2.2
D	Training material (posters, charts, demonstration material including chemicals etc. Required for conducting the training)	1.1
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1.1
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	1.1
G	Training of extension functionaries	1.1
H	Maintenance of buildings	0.6
I	Establishment of soil, plant & water testing laboratory	1.1
J	Library	0.2
	TOTAL Recurring Contingencies	**111.19**
2	**Non-Recurring Contingencies**	
2.1	**Works**	55.0
2.2	**Equipments Including SWTL & Furniture**	5.5
2.3	**Vehicle** (Four wheeler/Two wheeler, please specify)	1.1
2.4	**Library** (Purchase of assets like books & journals)	0.2
	TOTAL Non-Recurring Contingencies	**61.8**
	REVOLVING FUND	**-**
	GRAND TOTAL	**173.7**