

Action Plan 2018 - 19

KRISHI VIGYAN KENDRA BURDWAN



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1. Name of the KVK : **KRISHI VIGYAN KENDRA BURDWAN**
2. Name of host organization : ICAR-Central Research Institute for Jute & Allied Fibres

Training programmes to be organized (April 2018 to March 2019)

(a) Farmers and Farm women

Thematic Area	Title	No of training	Duration	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total *
I Crop Production										
Post harvest technology	Post-harvest operations of jute	1	1	Off	7	3	30	40	0	40
Production technology	Improved production technology off jute	2	1	Off	20	10	50	80	0	80
Resource Conservation Technologies	Rice cultivation through SRI	2	1	On	--	80	--	80	0	80
Conservation agriculture	Sustainable crop production through conservation agriculture (to be done during skill development trg)	1	4	On	5	--	15	20	0	20
Production technology	Improved production technology of sesame	1	1	Off	10	5	25	40	0	40
Production technology	Improved production technology of green gram	1	1	Off	10	5	25	40	0	40
II Horticulture										
Vegetable cultivation (Skill Development)	Improved vegetable Cultivation techniques(to be done during skill development trg)	1	4	On	5	10	25	38	2	40
Protective cultivation (Skill Development)	Protective cultivation of vegetables(to be done during skill development trg)	1	4	On	10	20	50	76	4	80
Orchards development	Layout and Management of Orchards	1	1	On	4	0	16	20	0	20
	Management of young plants/orchards	1	1	Off	4	0	16	20	0	20
	Rejuvenation of old orchards	1	1	Off	4	0	16	20	0	20
	Micro irrigation systems of orchards	1	1	On	4	0	16	20	0	20
Cultivation of Fruit	Improved cultivation of tissue culture banana	3	1	Off	12	3	45	60	0	60
Plant propagation techniques	Plant propagation techniques of sub-tropical fruit crops	3	1	On	12	3	45	60	0	60
Production and	Improved	3	1	Off	24	6	30	60	0	60

Management technology	production technology of potato									
Production and Management technology	Improved production technology of kharif onion	3	1	Off	24	6	20	50	0	50
III Soil Health and Fertility Management										
Micro nutrient deficiency in crops	Need for micronutrient application in major crops vis-a-vis emerging micronutrient deficiency in soils of Burdwan	2	1	On	--	80	--	80	0	80
Nutrient Use Efficiency	Increasing nutrient use efficiency in rice and other crops	2	1	On	10	5	25	40	0	40
Soil and Water Testing	Need for soil testing and soil test based fertilizer application	4	1	Off	20	--	60	80	0	80
IV Livestock Production and Management										
Livestock feed and fodder production	Cultivation techniques of rice bean	3	1	On	15	0	45	45	15	60
	Cultivation techniques of oat as fodder	3	1	Off	30	0	60	84	6	90
V Plant Protection										
Integrated Pest Management	Integrated Pest Management (IPM) in <i>aman</i> rice	3	1	On	15	0	60	75	0	75
Production of bio control agents and bio pesticides	Formulation of neem and tobacco base biopesticides	3	1	On	15	0	60	75	0	75
Pest management of crops	Pest Management in Potato	3	1	Off	15	0	60	75	0	75
	Pest Management in Mustard	3	1	Off	15	0	60	75	0	75
	Pest Management in Tomato	2	1	Off	6	4	30	40	0	40
	Pest Management in Cucurbits	2	1	Off	6	4	30	40	0	40
VI Fisheries										
Integrated fish farming (Skill Development)	Integrated duck-cum-fish farming in back yard pond	1	2	On	16	4	40	40	20	60
	Integrated poultry-cum-fish farming in back yard pond	1	2	On	16	4	40	40	20	60
Carp fry and	Rearing pond preparation and	1	1							

fingerling rearing	management									
	Preparation and management of nursery pond	1	1	Off	7	1	22	20	10	30
Composite fish culture (Skill Development)	Aquatic weeds and algal blooms in fish ponds, their control and utilization	1	1	Off	10	0	20	20	10	30
	Schedule of fertilization and liming in fish culture ponds.	1	1	Off	10	1	19	20	10	30
	Disease management & prophylactic measures in composite fish culture pond	1	1	On	9	2	19	20	10	30
	Effects of liming in fish ponds	1	1	On	8	1	21	20	10	30
Hatchery management and culture of freshwater fishes	Polyculture of freshwater IMC with cat fishes	1	1	On	7	3	20	24	06	30
	Scientific management of IMC Fish Hatchery	1	1	Off	11	1	18	24	06	30
VIII Agricultural extension										
Water management	Efficient methods of water management in major crops	1	1	Off	6	9	10	25	0	25
Drudgery reduction technologies in farm women	Women friendly tools and equipments use in agricultural work	1	1	Off	5	5	10	0	20	20
Gender sensitization	Entrepreneurial ability and avenues for rural women for women empowerment	1	3	Off	9	6	45	00	60	60
Microfinance through self help group	Formation and management of self help groups	3	1	Off	8	6	46	20	40	60
Banking scheme in agriculture	Crop insurance and Banking Scheme in Agriculture	3	1	On	12	7	41	50	10	60
Small scale processing and value addition	Small scale processing and value addition in rice	2	1	Off	6	5	29	00	40	40
Fodder production	Production technology of different fodder crops	1	1	Off	1	5	14	16	4	20
	Production technology of	1	1	Off	1	6	13	17	3	20

	Azolla									
Agricultural Engineering	Mechanized paddy cultivation techniques	3	1	Off	8	6	46	20	40	60
Total		81	58	--	452	316	1387	1809	346	2155

(b) Rural youths

Thematic Area	Title	No of courses	Duration	On/Off campus	No of participants						
					SC	ST	Others	M	F	Total *	
I Crop Production											
Production of organic inputs	Vermicompost production at farmers level (to be covered during Skill Development Trg.)	1	4	On	--	20	--	20	0	20	
Seed production	Seed production of field crops	1	4	Off	--	20	--	20	0	20	
II Fishery											
Carp breeding and hatchery mgt.	Induced breeding of Indian major carp	1	3	On	15	0	75	60	30	90	
III Production of Inputs at site											
IV Agricultural Extension											
WTO and IPR issues	WTO and GATT - implications for Indian agriculture	2	1	On	12	6	22	28	12	40	
	IPR issues related to Indian agriculture	1	1	Off	1	5	14	16	4	20	
Total		6	13	0	28	51	111	144	46	190	

(c) Extension functionaries

Thematic Area	Title	No of courses	Duration	On/Off	No of participants						
					SC	ST	Others	M	F	Total *	
I Crop Production											
Resource Conservation Technologies	Rice cultivation through SRI	3	1	On	15	--	45	60	0	60	
Others, if any (Climate change)	Climate change and agriculture	2	1	On	10	--	30	40	0	40	
II Fishery Sc.											
Composite fish culture	Food security through fish culture	1	3	On	9	6	30	42	3	45	
Total		6	5		34	6	105	142	3	145	

(d) Sponsored Training

Thematic Area	Title	Courses	Duration	On/Off	No of participants					
					SC	ST	O	M	F	Tot
Resource Conservation Technologies	Rice cultivation through SRI	5	1	On	30	30	90	150	0	150
Nursery raising	Nursery management in vegetable crops	1	2	On	15	0	30	45	0	45
Soil and Water Testing	Need for soil testing and soil test based fertilizer application	3	1	Off	30	15	45	90	0	90
Production of organic inputs	Vermicompost production at farmers level	3	1	On	12	6	42	54	06	60
Value addition	Value addition techniques in fruit and vegetables	3	1	On	24	15	51	84	06	90
Fodder production	Production technology of different fodder crops	2	1	On	6	11	43	52	8	60
Total		17	7	0	117	77	301	475	20	495

(e) Vocational Training

Thematic Area	Title	courses	Duration	On/Off	No of participants/trainee days					
					SC	ST	O	M	F	Tot
Protective cultivation (Green Houses, Shade Net etc.)	Green house cultivation of high value vegetables	2	3	On	6	4	20	30	0	30
Income generation activities for empowerment of rural Women	Jute handicrafts preparation for Self employment	1	15	On	7	3	15	0	25	25
	KathaStitch preparation	1	15	On	0	25	0	0	25	25
	Jewelry making	1	15	Off	0	25	0	0	25	25
	Purse making	1	15	Off	0	25	0	0	25	25
Mushroom Production	Improved Production Technology of Oyster Mushroom Cultivation	1	5	On	3	2	15	10	10	20
(Fish entrepreneur development	Ornamental fish culture	1	3	Off	12	3	15	21	9	30
Others, if any	Recent advances in agricultural crop production	1	3	On	4	0	16	20	0	20
Total		9	74	0	32	87	81	81	119	200

3. Frontline Demonstration

Season	Crop	Variety	No. of demonstration	No. of area (ha)
Summer 2018	Jute (Package demonstration)	JRO 204, CO-58	50	15
Kharif 2018	Seed village of Paddy (ICM)	MTU 7029	90	12
Kharif 2018	Groundnut	TG 37A	50	40
Rabi 2018-19	Mustard	JD 6	180	100
Rabi, 2018-19	Lentil	Moitreyee (WBL 77)	225	80
Rabi, 2018-19	Chickpea	JAKI 9218	37	15

Rabi, 2018-19	Groundnut	TG 37A	125	60
Summer 2019-20	Sesame	RT 351	225	60
Rabi 2018-19	Green gram	IPM 02-03	60	20
Kharif 2018	Kharif onion	Agrifound Dark Red	25	3
Rabi 2018	Cauliflower	Component: boron	20	2
Rabi 2018	Rabi onion	NHRDF Red 3	25	3
Rabi 2018	Brinjal	Bhangar Selection	20	1
Kharif 2018	Rice bean (Fodder)*	Bidhan-2	15	0.5
Kharif 2018	Sorghum (Fodder)*	PC-6/ MP Chari	10	0.1
Kharif 2018	Maize (fodder)	African Tall	10	0.5
Rabi 2018	Berseem (fodder)	Wardan	10	0.1
Rabi 2018	Oat (fodder) *	Kent	10	0.1
Rabi 2018	Kitchen Garden		20	0.4
		Total	1207	412.70

Enterprise

Season	Enterprise	Variety	No. of demonstration	No. of animal/ area (ha)
Year round	Culture of <i>GIFT tilapia</i>	Tilapia	10	0.5 ha
Year round	Intensive fish culture	IMC	1	0.2 ha
Kharif	New carp variety	Amur	10	0.3 ha
Kharif	Improved IMC variety	Jayanti Rohu	10	1 ha
Rabi	Mushroom	Oyster	30	--
Rabi	Beekeeping	Honey bee	3	1 ha

4. Seed and planting material production

Seed		Planting material	
Crop	Area	Crop	Area/No
i. Paddy (Foundation Seed)	4.5 ha	i. Tomato seedlings	50000 nos.
ii. Sesame (Seed Production)	0.5 ha	ii. Brinjal seedlings	30000 nos.
iii. Lentil	0.5 ha		
iv. Greengram	0.5 ha		
		viii. Fish fingerling production	0.5 ha
		ix. Fish spawn to fry production	0.5 ha

5. Extension Activities

Activities	No.	Participants
Field day	18	600
Technology Week	1	500
Farmers-Scientist interaction	2	80
Film show/ TV show	10	250
Farmers' Study Tour	4	200
Exhibition	4	300
Workshop	2	200
Soil health Camp (Soil testing campaign)	10	500
Animal Health Camp	3	500
Self Help Group Conveners meetings	6	180
Mahila Mandals Conveners meetings	3	90
Day celebration (World Fish Day, World Food Day, International Soil day)	2	100

6. Revolving Fund

Open balance as on 1 st april 2018 (Rs. in lakh)	Amount to be invested (Rs.)	Return (Rs.)
0.50 + In kind 9.00 (approx)	7.00	8.50

7. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)
Technology transfer	ATMA	5.00
Technology transfer	NABARD	3.00
Quadcopter in agriculture surveillance	NABARD	9.80

8. On-Farm Trials to be conducted (10 nos)

Thematic area	Title	Treatments	No. of farmers
OFT-1: Agronomic practice	Assessment of different remediation measures for cold stress of rice seedling during <i>rabi</i> season under medium upland situation of Burdwan district	Farmers' practice: Carbendazim/ Mancozeb spray TO - 1: Spraying of Triconanol @ 100 ppm 2 times at 3 day interval when temperature falls below 12°C. TO - 2: Spraying of Indole -3-acetic acid (IAA) @100 ppm 2 times at 3 day interval when temperature falls below 12°C. TO - 3: Spraying of micronutrient mixture (N, B, Mg and Zn)	5
OFT-2: Crop management	Assessment of different management practices of lentil in rice-fallow system under medium upland situation of Burdwan district	Farmers' practice: Broadcasting dry non-treated seed @ 30 kg/ha TO - 1: Seed priming + seed rate of 36 kg/ha TO - 2: Seed priming + Seed treatment with <i>trichoderma viridae</i> + rhizobium + micronutrient @ seed rate of 30 kg/ha TO - 3: Seed priming + Foliar spray of 2% urea at pre-flowering and pod development @ seed rate of 30 kg/ha	5
OFT-3: Nutrient management (Continued for 2 nd year)	Assessment of Zn and B nutrition under deficient regimes in Rice-Mustard crop system in medium upland situation of Burdwan district	FP: 100% RDF (100:50:50 in rice; 80:40:40 in mustard) + No micronutrient TO - 1: 100% RDF + 5 kg Zn/ha as basal in both seasons TO - 2 : 100% RDF + 1 kg B/ha basal application TO - 3 : 100% RDF + 5 kg Zn/ha as basal in both seasons + 1 kg B/ha basal application	5
OFT-4: Varietal evaluation	Evaluation of performance of different varieties of tomato	FP: Abhilash TO 1: Arka Samrat TO 2 : Arka Rakshak	7
OFT-5: Production technology	Improved management practice of potato	FP: Seed rate: 15q/ha Fert. Dose: NPK:: 180:150:150 (½ N in 2 splits, rests as basal) Disease mang.: FS of Mancozeb 75% WP/ Metalaxyl 8% +Mancozeb 64% WP (5 no. of spray) TO 1: Seed rate: 18q/ha Fert. Dose: NPK:: 180:150:150 (½ N and 1/3 K in 2 splits, rests as basal) Disease mang.: Seed treatment with Mancozeb 75% WP and FS of Mancozeb/ Metalaxyl 8% +Mancozeb 64% WP (5 no. of spray) TO 2 : Seed rate: 20 q/ha Fert. Dose: NPK:: 200:150:150 (½ N and 1/3 K as 2 splits, rests as basal) Disease management.: Seed treatment with Mancozeb 75%	7

		WP, 1 spray each of the following Mancozeb 60%+Cymoxanil 80%WP Mancozeb 60% + Dimethomorph 9% WP Famoxadone 16.6% + Cymoxanil 22.1% SC	
OFT-6: Nutrient management	Nutrient management practice in mango	FP: N:P:K:: 1kg:1kg:1kg (per plant per year, >5yr old plant) TO 1: FP+ 3 nos. of sprays of soluble boron (20% B): Pre flowering(2), Flowering(1) TO 2 : FP+ Soil application of Paclobutrazole @ 8g a.i./plant, 120 days before flowering TO 3 : FP+ TO 2 + 4 sprays of micronutrient mixture (Ca, N, B, Mg and Zn)	7
OFT-7: Fish production technology	Effect of Weed fish removing methods in fish ponds in Burdwan	FP: unlawful methods of killing weed fishes TO 1: application of Mohua Oil Cake TO 2: application of Mixture of Urea and Bleaching powder	7
OFT - 8: Fish production technology	Effect of growth promoters on fish productivity	FP: no application of growth promoter in ponds TO 1: occasional use of growth promoter in fishponds TO 2: periodic use of growth promoter (Choline chloride) at proper dose in fish ponds	7
OFT-9: Impact assessment (Continuing)	Impact of cluster demonstration on farmers of Burdwan	FP: Non beneficiary TO1: Cluster demonstration year 2016-17 TO2: Cluster demonstration 2017-18	5 from each village under CFLD
OFT-10: Extension intervention	Effectiveness of different modes of extension intervention in combination with social media-Whatsapp in knowledge gain and retention	Farmers practice: No use of any extension intervention TO1: Training TO2: Demonstration TO3: Training+ Demonstration TO4: Training +Whatsapp Group TO5: Demonstration + Whatsapp Group TO6:Training+Demonstration+Whatapp Group	25 each Total (175)

9. List of Projects to be implemented

Name of the project	Fund expected (Rs.)
Quadcopter surveillance for real time crop & soil health assessment & optimization of farm input use - A paradigm shift in precision agriculture	RS. 10 lakh
Biotech Kisan	Rs, 8 lakh
IARI Post office - Linkage model	Seed and critical inputs

10. No. of success stories to be developed: 10

- Success stories on CFLD on pulses: 03
- Success stories o CFLD on oilseeds: 03
- Success story on improved jute cultivation: 01
- Success story on IIHR technology trial: 01
- Success story on Amur carp culture: 01
- Success story on seed village of paddy: 01

11. Scientific Advisory Committee

Date of SAC meeting held during 2017-18	Proposed date
15 th SAC meeting	January, 2019

12. Soil and water testing

Sample	No. of samples to be analysed
Soil	1200
Plant	20
Water	50

13. Staff position

Sanctioned	In position	If vacant, since when
Programme Coordinator / Sr. Scientist	0	1(since 01.12.12)
SMS (Agril.) / T-7/8	1	0
SMS (Hort.) / / T-7/8	1	0
SMS (A.H. & V.S.) / / T-7/8	0	1 (since 22.09.15)
SMS (Fishery Sc.) / / T-7/8	1	0
SMS (Agril. Extn)/ T-6	1	0
SMS (Home Sc.) / T-6	0	1 (since 14.09.15)
Programme Assistant (Computer)/ T-5	1	0
Programme Assistant/ T-5	1	0
Farm Manager/T-5	1	0
Assistant	1	0
Stenographer, Grade - III	0	1 (since 22.09.15)
Driver/ T-2	1	0
Driver / T-2	1	0
Skilled Supporting Staff	1	0
Skilled Supporting Staff (Cook)	1	0
Total	11	05

14. Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative building	Completed	-	-	-
Trainees' hostel	Completed	-	-	-
Staff quarter	Completed	-	-	-
Demonstrations:				
i) IFS	Completed	-	-	-
ii) Portable Carp Hatchery	Completed	-	-	-
iii) Goatary	Completed	-	-	-

15. Fund requirement and expenditure (Rs.)**Total Fund Requirement:**

	Expenditure (last year) (Rs. in lakh)	Expected requirement (Rs. in lakh)
Recurring		
i. Pay & allowance	103.77	110.00*
ii. Contingency	15.06	20.00
iii. TA	1.30	3.00
iv. HRD	0.10	0.20
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)	--	26.00
iv. Furniture & Equipment	2.30	10.00
v. Vehicle and tractor	--	15.00
TOTAL		184.20

(D. Ghorai)
PC (I/C), KVK