

# Action Plan

## 2015-16

# KRISHI VIGYAN KENDRA BURDWAN



**KRISHI VIGYAN KENDRA BURDWAN**  
Central Research Institute for Jute & Allied Fibres (ICAR)  
Budbud, Burdwan, W.B. 713 403  
Telefax: 0343-2513651  
[www.kvkcrijaf.org.in](http://www.kvkcrijaf.org.in)

## Action Plan 2015-16

1. Name of the KVK : **KRISHI VIGYAN KENDRA BURDWAN**
2. Name of host organization : Central Research Institute for Jute & Allied Fibres (ICAR)
3. **Training programmes to be organized (April 2015 to March 2016)**

### (a) Farmers and Farm women

Thematic Area	Title	No of training	Duration	On / Off campus	No of participants						
					SC	ST	Others	M	F	Total *	
<b>I Crop Production</b>											
Post harvest technology	Post-harvest operations of jute	3	1	Off	24	15	36	75	0	75	
Weed Management	Weed management of jute	3	1	Off	24	15	36	75	0	75	
Production technology	Improved production technology off jute	3	1	Off	24	15	36	75	0	75	
Resource Conservation Technologies (Skill Development)	Rice cultivation through SRI	2	4	Off	10	20	50	80	0	80	
Cropping Systems	Increasing cropping intensity through inclusion of crop in rice-rice system	1	1	Off	6	4	10	20	0	20	
Crop Diversification	Introduction of pulse crops in less developed areas of the district	1	1	Off	6	4	10	20	0	20	
Water management	Water management in crops	3	1	Off	12	8	20	40	0	40	
Seed production (Skill Development)	Seed production of paddy	2	4	Off	10	20	50	80	0	80	
Production of organic inputs (Skill Development)	Compost Production	2	4	On + Off	6	14	30	50	0	50	

<b>II Horticulture</b>											
Vegetable cultivation (Skill Development)	Improved vegetable Cultivation techniques	1	4	On	5	10	25	38	2	40	
Protective cultivation (Skill Development)	Protective cultivation of vegetables	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 Management technology	Improved production technology of potato	3	1	Off	24	6	30	60	0	60	
<b>III Soil Health and Fertility Management</b>											

Soil fertility management	Improved fertilizer management in oilseeds and pulses	2	1	Off	6	4	30	40	0	40
Management of Problematic soils	Ameliorating acidity development in soil	3	1	Off	21	9	30	60	0	60
Micro nutrient deficiency in crops	Need for micronutrient application in major crops vis-a- vis emerging micronutrient deficiency in soils of Burdwan	3	1	On	21	9	30	60	0	60
Nutrient Use Efficiency	Increasing nutrient use efficiency in rice and other crops	3	1	Off	21	9	30	60	0	60
Soil and Water Testing	Need for soil testing and soil test based fertilizer application	3	1	On	18	0	72	90	0	90
<b>IV Livestock Production and Management</b>										
Dairy Management	Home made cattle feed preparation using local feed resources	3	1	On	30	6	54	60	30	90
Poultry Management	Care of chicks and ducklings	4	2	Off	40	0	40	40	40	80
	Quail rearing	3	1	off	40	0	40	40	40	80
Disease Management	Animal shed disinfection	3	1	Off	30	0	60	30	60	90
Pig management	Rearing of pig in low inputs system	3	1	Off	30	30	0	30	30	60
Feed management	Feeding techniques of mineral mixture for dairy cow & goat	3	1	Off	30	0	60	30	60	90
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
Post Harvest Technology	Techniques of paneer preparation	3	1	Off	30	0	60	30	60	90
<b>V Plant Protection</b>										
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
<b>VI Fisheries</b>										
Integrated fish farming	Integrated duck-cum-fish farming in back yard pond	1	2	On	16	4	40	40	20	60
Carp fry and fingerling rearing	Rearing pond preparation and management	1	1	Off	7	1	22	20	10	30
	Preparation and management of nursery	1	1	Off	10	0	20	20	10	30

	pond									
Composite fish culture	Aquatic weeds and algal blooms in fish ponds, their control and utilization	1	1	Off	10	1	19	20	10	30
	Schedule of fertilization and liming in fish culture ponds.	1	1	On	9	2	19	20	10	30
	Disease management & prophylactic measures in composite fish culture pond	1	1	On	8	1	21	20	10	30
	Effects of liming in fish ponds	1	1	On	7	3	20	24	06	30
Hatchery management and culture of freshwater prawn	Polyculture of freshwater Prawn with IMC	1	1	Off	11	1	18	24	06	30
	Scientific management of IMC Fish Hatchery	1	1	On	11	1	18	24	06	30
<b>VII Home Science</b>										
Design and development of low/minimum cost diet	Preparation of Amylase rich foods for children	2	1	Off	10	10	20	0	40	40
Drudgery reduction technologies in farm women.	Women friendly tools and equipments use in agricultural work	1	1	Off	5	5	10	0	20	20
	Ergonomical characteristics of farm women of India	2	1	Off	5	5	20	0	30	30
Preservation and Value addition	Methods of Preservation and value addition farm products	2	1	On	15	15	30	0	60	60
	Processing of milk	2	1	On	15	15	30	0	60	60
Designing and development for high nutrient efficiency diet	Importance of weaning food & preparation of low cost recipes	2	1	On	16	4	40	0	60	60
	Therapeutic nutrition	2	1	On	16	4	40	0	60	60
	Recommended dietary allowances for vulnerable groups	2	1	Off	16	4	40	0	60	60
Minimization of nutrient loss in processing	Scientific methods of food handling during processing	2	1	Off	20	10	10	0	40	40
	Food adulteration	1	1	Off	10	10	10	0	30	30
<b>VIII Agricultural extension</b>										
Water management	Efficient methods of water management in major crops	1	1	Off	6	9	10	25	0	25
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
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

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
<b>Total</b>		<b>133</b>	<b>83</b>		<b>906</b>	<b>372</b>	<b>2102</b>	<b>2319</b>	<b>1061</b>	<b>3380</b>

### (b) Rural youths

Thematic Area	Title	No of courses	Duration	On/Off campus	No of participants					
					SC	ST	Others	M	F	Total*
<b>I Crop Production</b>										
Production of organic inputs (Skill Development)	Vermicompost production at farmers level	1	4	On	3	7	15	25	0	25
Production of organic inputs	Preparation of organic pesticides and its application	1	2	On	5	0	15	20	0	20
Mushroom Production (Skill Development)	Improved Production Technology of Oyster Mushroom Cultivation	2	4	On	6	18	36	40	20	60
Seed Production	Seed production techniques of major vegetable crops	1	1	Off	10	0	10	20	0	20
<b>II Livestock Production and Management</b>										
Poultry management	Duck farming	3	3	Off	30	15	15	45	15	60
<b>III Fishery</b>										
Carp breeding and hatchery mgt.	Induced breeding of Indian major carp	1	3	On	15	0	75	60	30	90
<b>IV Production of Inputs at site</b>										
<b>V Agricultural Extension</b>										
<b>Total</b>		<b>9</b>	<b>17</b>		<b>69</b>	<b>40</b>	<b>166</b>	<b>210</b>	<b>65</b>	<b>275</b>

### (c) Extension functionaries

Thematic Area	Title	No of courses	Duration	On/Off	No of participants					
					SC	ST	Others	M	F	Total*
<b>I Crop Production</b>										
Resource Conservation Technologies	Rice cultivation through SRI	3	1	On	24	6	30	60	0	60
Others, if any (Climate change)	Climate change and agriculture	2	1	On	10	0	30	40	0	40
Protective cultivation (Green Houses, Shade Net etc.)	Micro irrigation technology in horticulture crops	1	3	On	6	3	36	30	15	45
<b>II Livestock Production and Management</b>										
Management of farm animals	Feed and feeding practice of livestock	3	1	On	15	0	45	45	15	60
Management of farm animals	Artificial	1	1	on	20	0	0	20	0	20

	insemination									
Management of farm animals	Pen-side clinical pathological test for better animal health	3	1	on	15	0	45	45	15	60
<b>III Fishery Sc.</b>										
Composite fish culture	Food security through fish culture	1	3	On	9	6	30	42	3	45
<b>IV Home Science</b>										
Development of low cost nutritious food	Utilization of locally available food resources for complementary feeding of children	3	1	On	15	0	45	0	60	60
<b>V Agricultural Extension</b>										
<b>Total</b>		<b>17</b>	<b>12</b>	<b>0</b>	<b>114</b>	<b>15</b>	<b>261</b>	<b>282</b>	<b>108</b>	<b>390</b>

**(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
<b>Total</b>		<b>15</b>	<b>6</b>		<b>111</b>	<b>66</b>	<b>258</b>	<b>423</b>	<b>12</b>	<b>435</b>

**(e) Vocational Training**

Thematic Area	Title	courses	Duration	On/Off	No of participants/trainee days					
					SC	ST	O	M	F	Tot
Entrepreneurship development	Various enterprise choices for rural women	1	5	Off	5	0	15	0	20	20
Protective cultivation (Green Houses, Shade Net etc.)	Green house cultivation of high value vegetables	2	3	On	6	4	20	30	0	30
Poultry Management	Broiler farming	2	7	On	12	20	8	20	20	40
Income generation activities for empowerment of rural Women	Jute handicrafts preparation for Self employment	1	7	On	7	3	15	0	25	25
Mushroom Production	Improved Production Technology of Oyster Mushroom Cultivation	1	5	On	3	2	15	10	10	20
Rural crafts	Tie and Dye method	1	7	Off	8	2	20	0	30	30
Goat production	Goat rearing	1	8	off	15	2	8	15	10	25
(Fish entrepreneur development)	Ornamental fish culture	1	3	Off	12	3	15	21	9	30
Others, if any	Recent advances in	1	3	On	4	0	16	20	0	20

	agricultural crop production									
<b>Total</b>		<b>11</b>	<b>48</b>	<b>0</b>	<b>72</b>	<b>36</b>	<b>132</b>	<b>116</b>	<b>124</b>	<b>240</b>

#### 4. Frontline Demonstration

Season	Crop	Variety	No. of demonstration	No. of area (ha)
Summer 2015	Jute (Varietal)	JRO 204	50	10
Summer 2015	Jute (Improved retting)	---	50	7
Kharif 2015	Paddy(SRI with split application of fertilizer)	MTU-7029	15	2
Rabi, 2015	Mustard	B9	15	2
Rabi, 2015	Lentil	WBL 81	15	2
Pre kharif 2016	Sesame	Sabitri	15	2
Kharif 2015	Banana (Package demo. Of TCB )	Grand Naine	10	1
Rabi 2015-16	Brinjal (Packaged Demonstration)	Bhangar	10	2
Kharif 2015	Rice bean (Fodder)*	Bidhan-2	30	0.2
Kharif 2015	Sorghum (Fodder)*	PC-6/ MP Chari	25	0.2
Rabi 2015	Berseem (fodder)	Wardan	2	0.4
Rabi 2015	Oat (fodder) *	Kent	10	0.5
Year round			15	
Drudgery Reduction	Ring Cutter	Plucking of vegetables	40	0.1
<b>Total</b>			<b>302</b>	<b>29.4</b>

\* under NIFTD programme & RSFPD, Kalyani

## Enterprise

Season	Enterprise	Variety	No. of demonstration	No. of animal/ area (ha)
Year round	Cattle (Nutrient management)	Deshi cow	10	10 nos.
Year round	Duck (Nutrient management)	Khaki Campbell	10	200 nos.
Year round	Quail (improved breed)	Japanese	10	200 nos.
Year round	Goat (package of practices)	Bengal goat	10	30 nos.
Year round	Culture of <i>Oreochromis mossambicus</i>	Tilapia	10	0.5 ha
Year round	Magur	Deshi	10	0.5 ha
Year round	Intensive IMC culture	IMC	10	1 ha

## 5. Seed and planting material production

Seed		Planting material	
Crop	Area	Crop	Area
i. Paddy (Foundation Seed)	5.5 ha	i. Tomato seedlings	40000 nos.
ii. Sesame (Seed Production)	0.5 ha	ii. Brinjal seedlings	10000 nos.
iii. Lentil	0.5 ha	iii. Cauliflower seedlings	10000 nos.
iv. Ricebean as fodder	0.1 ha	iv. Fruit saplings	100 nos.
		v. stem cutting of Hybrid Napier	1000 nos
		vi. Livestock (Goat Kid)	10 nos.
		vii. Brooding Chicks (RIR)	1000 nos.
		viii. Fish fingerling production	1.5 ha
		ix. Fish spawn to fry production	1.5 ha

## 6. Extension Activities

Activities	No.	Participants
Field day	6	300
Technology Week	1	750
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	12	1200
Farm Science Club Conveners meet	12	480
Self Help Group Conveners meetings	6	180
Mahila Mandals Conveners meetings	3	90
Awareness camp on Nutrition, health and hygiene (National Nutrition Week)	1	150
Day celebration (World Veterinary Day, World Food Day)	2	100



## 7. Revolving Fund

Open balance as on 1 <sup>st</sup> april 2015 (Rs. in lakh)	Amount to be invested (Rs.)	Return (Rs.)
1.10 + In kind 8.00 (approx)	4.00	8.50

## 8. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)
NIFTD	IGFRI	-

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

Thematic area	Title	Treatments	No. of farmers
<b>OFT-1: Resource conservation</b>	<b>Assessment of effectiveness of different bio-fertilisers on productivity of lentil</b>	<b>Farmers' practice:</b> Only inorganics (20:50:20 N:P:K) <b>Technology - 1:</b> FP + PSB <b>Technology - 2:</b> FP + rhizobium <b>Technology - 3:</b> FP + PSB + rhizobium	<b>5</b>
<b>OFT-2: Varietal evaluation</b>	<b>Evaluation of effectiveness different retting methodologies on yield and economics of jute</b>	<b>Farmers' practice:</b> Conventional retting <b>Technology - 1 to be assessed:</b> Ribbon retting <b>Technology - 2 to be assessed:</b> Steeping of jute jak with sand bag <b>Technology - 3 to be assessed:</b> TO2 + CRIJAF Sona	<b>5</b>
<b>OFT-3: Varietal evaluation</b>	<b>Evaluation of performance of different varieties of early cauliflower.</b>	<b>FP:</b> Local variety <b>TO 1:</b> Trisha <b>TO 2 :</b> Barsati <b>TO 3 :</b> Dawn-175	<b>10</b>
<b>OFT-4: Varietal evaluation</b>	<b>Evaluation of performance of different varieties of onion.</b>	<b>FP:</b> Sukhsagar <b>TO 1:</b> Nasik Red <b>TO 2 :</b> Agrifound Dark Red <b>TO 3 :</b> Agrifound Light Red	<b>10</b>
<b>OFT-5: Nutrition management</b>	<b>Evaluation of different non antibiotic growth promoters in small scale broiler production in Burdwan district (2<sup>nd</sup> yr)</b>	<b>Farmers' practice:</b> Commercial broiler feed <b>Technology 1 to be assessed:</b> <i>Probiotics as performance promoter</i> <b>Technology 2 to be assessed:</b> <i>Organic acid as performance promoter</i>	<b>7</b>
<b>OFT-6: Nutrient Management</b>	<b>Effect of different water sanitizers on broiler growth in Burdwan district</b>	<b>Farmers' practice:</b> Use of clean water as drinking purpose with periodical cleaning of tank and application of alum <b>Technology 1 to be assessed:</b> Application of chlorinated compound in drinking water (Poly hexamethylene biguanide hydrochloride-1 %) <b>Technology 2 to be assessed:</b> Application of iodine complex (iodine 1.75-2.7	<b>7</b>

		5%) in drinking water	
<b>OFT-7: Weaning Food evaluation</b>	<b>Effect of low cost weaning food on children health – Intervention at farm level</b>	<b>Farmers' Practice:</b> Traditional Weaning food TO1: Weaning food based on rice, soyabean & sugar TO2 : Weaning food "Amylase rich foods"	<b>7</b>
<b>OFT-8: Feed management</b>	<b>Evaluation of different feed management practices of Indian Major Carps production</b>	<b>FP:</b> occasional feeding by spreading the ingredient mixture <b>TO 1:</b> feeding by feedbags in the bamboo <b>TO 2:</b> feeding by demand based feeding machine	<b>10</b>
<b>OFT-9: Knowledge gain and retention</b>	Effectiveness of extension teaching methods in gain and retention of knowledge of Vegetable Seed Production	<b>Farmers' practice:</b> Knowledge gain through informal source <b>TO1:</b> Training <b>TO 2:</b> Field day <b>TO 3:</b> Training manual	<b>45</b>

#### 10. List of Projects to be implemented

Name of the project	Fund expected (Rs.)

#### 11. No. of success stories to be developed: 02

a) Improvement of tribal livelihood: 01

b) Profitable jute cultivation: 01

#### 12. Scientific Advisory Committee

Date of SAC meeting held during 2014-15	Proposed date
11 <sup>th</sup> SAC meeting	June 2014
12 <sup>th</sup> SAC meeting to be held	June. 2015

#### 13. Soil and water testing

Sample	No. of samples to be analysed
Soil	<b>900</b>
Plant	<b>50</b>
Water	<b>50</b>

#### 14. 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	1	0
SMS (Fishery Sc.) // T-7/8	1	0
SMS (Agril. Extn) / T-6	1	0
SMS (Home Sc.) / T-6	1	0
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	1	0

Driver/ T-2	1	0
Driver / T-2	1	0
Skilled Supporting Staff	1	0
Skilled Supporting Staff	1	0
Total	15	01

### 15. 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	-	-	-

### 16. Fund requirement and expenditure (Rs.)

#### Total Fund Requirement:

	Expenditure (last year) (Rs. in lakh)	Expected requirement (Rs. in lakh)
<b>Recurring</b>		
i. Pay & allowance	100.78	115.00*
ii. Contingency	10.07	15.00
iii. TA	0.50	01.75
<b>Non-recurring (specify)</b>		
i. Vehicle and implement shed	--	25.00
ii. Storage godown	--	50.00
iii. Threshing and drying yard	--	05.00
iv. Furniture & Equipment	--	74.82**
v. Library	--	0.50
<b>TOTAL</b>		<b>277.84</b>

#### Note:

\* Pay & Allowances includes monthly salary, contribution of NPSTRI, LTC of staff, children education allowances etc.

\*\* Furniture & equipment includes office equipment, AV aids, farm implements, lab equipment, furniture of office, hostel, training hall etc. Fund requirement shown in EFC.

(D. Ghorai)  
I/C PC