

Action Plan 2014-15

KRISHI VIGYAN KENDRA BURDWAN



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Action Plan 2014-15

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 2014 to March 2015)**
 - (a) **Farmers and Farm women**

Thematic Area	Title	No of Courses	Duration	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total *
I Crop Production										
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	Rice cultivation through SRI	4	1	Off	28	12	80	120	0	120
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	Seed production of paddy	4	1	Off	30	20	50	100	0	100
Nursery management	Seed treatment and nursery management of kharif paddy	4	1	Off	36	24	60	120	0	120
Production of organic inputs	NADEP compost production	2	1	Off	10	4	16	30	0	30
	Vermicompost production	4	1	On+ Off	36	24	60	120	0	120
II Horticulture										
Nursery raising	Nursery management in vegetable crops	3	1	On	15	6	39	60	0	60
Off-season vegetables	Cultivation of off season vegetables for enhanced profitability	3	1	On + Off	15	6	39	60	0	60

Protective cultivation (Green Houses, Shade Net etc.)	Production technology of cole crops in greenhouse	2	2	On	6	4	30	40	0	40
Others, if any (Production technology of vegetables)	Improved production technology of major vegetable crops	3	1	On	15	9	66	90	0	90
Layout and Management of Orchards	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
III Soil Health and Fertility Management										
Soil fertility management	Improved fertilizer management in oilseeds and pulses	2	1	Off	6	4	30	40	0	40
Integrated Nutrient Management	INM in paddy	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
IV Livestock Production and Management										
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
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
V Plant Protection										
Integrated Pest Management	Integrated Pest Management (IPM) in <i>aman</i> rice	3	1	On	15	0	60	75	0	75
	Integrated Pest Management (IPM) in <i>boro</i> rice	3	1	Off	15	0	60	75	0	75
Bio-control of pests and diseases	Biological control of major rice pests	3	1	Off	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
Others, if any (Pest management)	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	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 pond	1	1	Off	10	0	20	20	10	30
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
VII Home Science										
Design and development of low/minimum cost diet	Preparation of nutritious diet for vulnerable groups.	2	1	Off	10	10	20	0	40	40
	Nutritive requirement for infants, pregnant and lactating mothers.	2	1	Off	10	10	20	0	40	40

Drudgery reduction technologies in farm women.	Women friendly farm tools and equipment for drudgery reduction.	1	1	Off	5	5	10	0	20	20
	Strategy for reduction of drudgery among farm women	1	1	Off	5	5	10	0	20	20
Preservation and Value addition	Methods of Preservation and value addition farm products	3	1	On	15	15	30	0	60	60
Designing and development for high nutrient efficiency diet	Importance of weaning food.	2	1	On	16	4	40	0	60	60
	Home scale preparation of food mixes.	2	1	On	16	4	40	0	60	60
	Nutritive instant food mixes from cereals and pulses for infants and young children	2	1	Off	16	4	40	0	60	60
Minimization of nutrient loss in processing	Scientific methods of cooking to minimize nutrient loss.	1	1	Off	10	10	10	0	30	30
	Methods of handling food during processing.	1	1	Off	5	5	10	0	20	20
VIII Agricultural extension										
Water management	Efficient methods of water management in major crops	3	1	Off	15	15	45	70	5	75
Gender sensitization	Entrepreneurial ability and avenues for rural women for women empowerment	2	1	Off	9	6	45	00	60	60
Microfinance through self help group	Formation and management of self help groups	3	1	Off	12	9	54	15	60	75
WTO and IPR issues	WTO and GATT – implications for Indian agriculture	3	1	On	18	9	33	42	18	60
	IPR issues related to Indian agriculture	3	1	Off	18	9	33	42	18	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	1	1	Off	6	5	14	00	25	25
Total		163	79		1068	407	2485	2965	995	3960

(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										
Seed production	Paddy seed	3	1	Off	15	0	30	45	0	45

	production technology									
Production of organic inputs	Vermicompost production at farmers level	3	1	On	15	0	30	45	0	45
Production of organic inputs	Preparation of organic pesticides and its application	1	2	On	5	0	15	20	0	20
Mushroom Production	Improved Production Technology of Oyster Mushroom Cultivation	1	2	On	6	4	20	15	15	30
Seed Production	Seed production techniques of major vegetable crops	1	1	Off	10	0	10	20	0	20
II Livestock Production and Management										
Poultry management	Duck farming	3	3	Off	30	15	15	45	15	60
III Fishery										
Carp breeding and hatchery mgt.	Induced breeding of Indian major carp	1	3	On	15	0	75	60	30	90
IV Production of Inputs at site										
V Agricultural Extension										
Capacity building for ICT application	ICT application in agriculture	1	3	On	5	3	12	15	5	20
Total		14	16		101	22	207	265	65	330

(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	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
II Livestock Production and Management										
Management of farm animals	Feed and feeding practice of livestock	3	1	On	15	0	45	45	15	60
Management of farm animals	Artificial insemination	1	1	on	20	0	0	20	0	20
Management of farm animals	Pen-side clinical pathological test for better animal health	3	1	on	15	0	45	45	15	60
III Fishery Sc.										
Composite fish culture	Food security through fish culture	1	3	On	9	6	30	42	3	45
IV Home Science										

Development of low cost nutritious food	Utilization of locally available food resources	3	1	On	15	0	45	0	60	60
V Agricultural Extension										
WTO and IPR issues	WTO and GATT – implications for Indian agriculture	3	1	On	15	0	45	45	15	60
	IPR issues related to Indian agriculture	3	1	Off	18	9	33	42	18	60
Leadership development	Methods of leadership development	3	1	On	6	4	50	38	22	60
Group dynamics	Group dynamics in farmers	3	1	On	7	5	48	45	15	60
Total		29	16		160	33	437	452	178	630

(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
Total		15	6		111	66	258	423	12	435

(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 in Agriculture	1	3	On	5	0	10	15	0	15
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

(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		10	38		57	34	119	116	94	210

(f) Special Skilled Development Programme

Thematic Area	Title	Courses	Duration	On/Off	No of participants/trainee days					
					SC	ST	O	M	F	Tot
Rural Crafts	Vocational training on Preparation of Fabric	1	7	On	13	5	12	5	25	30
Repair and maintenance of farm machinery and implements	Operation, maintenance and repairing of power tiller, pumpset and other agricultural implements	1	5	On	5	1	9	15	0	15
Total		2	12		18	6	21	20	25	45

4. Frontline Demonstration

Season	Crop	Variety	No. of demonstration	No. of area (ha)
Summer 2014	Jute (Varietal)	CO 58, JRO 204	50	10
Rabi, 2014	Mustard	B9	15	2
Rabi, 2014	Lentil	WBL 81	15	2
Pre kharif 2015	Sesame	Sabitri	15	2
Kharif 2014	Jute (Disease management of stem rot)	JRO 524	7	1
Rabi 14	Potato (Bio control of late blight)	Kufri pokraj	10	1
Pre kharif, 2015	Jute as vegetable	JRO 204	10	0.2
Kharif, 2014	Rice (extension method: Lecture + Demonstration)	MTU 7029	50 (Respondents)	--
Rabi 2014-15	Tomato (Packaged Demonstration)	Abhilash	15	2
Kharif 2014	Banana (Package demo. Of TCB)	Grand Naine	10	1
Kharif 2014	Rice bean (Fodder)*	Bidhan-2	2	0.2
Kharif 2014	Sorghum (Fodder)*	PC-6	2	0.2
Kharif 2014	Maize (Fodder)*	African tall and J-1006	2	0.4
Kharif 2014	Cowpea (fodder)*	BL-1	2	0.4
Rabi 2014	Oat (fodder) *	Kent	10	0.5
Year round	Diversified vegetables (Nutritional gardening)	Cucurbits, GLV and other vegetables	5	0.2

Rabi 2014	Post Harvest technology (Preservation of cauliflower pickle)	Local variety	5	5 kg
Total			190	25.1

* under NIFTD programme

Enterprise

Season	Enterprise	Variety	No. of demonstration	No. of animal/ area (ha)
Year round	Cattle (Nutrient management)	Deshi cow	10	10 nos.
Year round	Poultry (Improved rural breed)	RIR	10	200 nos.
Year round	Pig	Ghungroo pig	10	10 nos.
Year round	Culture of <i>Oreochromis mossambicus</i>	Tilapia	10	0.5 ha
Year round	Culture of Pangus (<i>Pangasius sutchi</i>)	Pangus	10	0.5 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	20000 nos.
iv. Oat as fodder	0.2 ha	iv. Fruit saplings	100 nos.
		v. stem cutting of Hybrid Napier	1000 nos
		vi. Livestock (Goat Kid)	20 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)	2	100
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	1	150
Day celebration (World Veterinary Day, World Food Day)	2	100

7. Revolving Fund

Open balance as on 1 st april 2014 (Rs. in lakh)	Amount to be invested (Rs.)	Return (Rs.)
4.84 + In kind 7.00 (approx)	4.20	7.00

8. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)
NIFTD	IGFRI	12.5

9. On-Farm Trials to be conducted (11 nos)

Thematic area	Title	Treatments	No. of farmers
OFT-1: Resource conservation	Assessment of paddy productivity through SRI (<i>kharif</i>) vis-à-vis nutrient mining in rice-rice production system under irrigated and medium upland situation of Burdwan district	Farmers' practice: (SRI with 100:50:50 N, P and K) Technology - 1: SRI with 5 t FYM + 100: 50: 50 N,P and K (N in two equal splits as basal and at maximum tillering; P and K in one split as basal) Technology - 2: SRI with 5 t FYM + 100:50:50 N,P and K (N in three splits as basal, maximum tillering and booting; entire P as basal and K in two splits as basal and at	5

		booting) Technology - 4: SRI with 5 t FYM + 100:50:50 N,P and K (N in four splits as basal, maximum tillering, internode elongation and booting; entire P as basal and K in three splits as basal, maximum tillering and at booting)	
OFT-2: Weed management	Effect of different weed management practices on productivity of jute under medium upland situation of Burdwan district	Farmers' practice: Conventional weed control (2 -3 hand weeding) Technology - 1 to be assessed: Chemical weed control Technology - 2 to be assessed: Line sowing + one wheel hoe operation + 1 supplementary hand weeding Technology - 2 to be assessed: Broadcasting + one CRIJAF NAIL WEEDER operation + 1 supplementary hand weeding	5
OFT-3: Varietal evaluation	Evaluation of performance of different varieties of early cauliflower.	FP: Local variety TO 1: Trisha TO 2 : Barsati TO 3 : Kimaya	10
OFT-4: Disease management	Evaluation of different management practices against late blight disease of potato	FP: Foliar spray of Mancozeb TO 1: Seed tuber treatment with Mancozeb + foliar spray of Metalaxyl & Mancozeb TO 2: Seed tuber treatment with Mancozeb + soil application of <i>Trichoderma viridae</i> + Foliar spray of Metalaxyl & Mancozeb	10
OFT-5: Nutrition management	Evaluation of performance of different level of azolla supplementation to layer birds of improved rural poultry breeds in Burdwan district	FP: Scavenging whole day and feeding of fallen grains, kitchen waste TO1: FP + 50 gm fresh azolla daily/ hen TO2: FP + 100 gm fresh azolla daily/ hen	7
OFT-6: Nutrient Management	Evaluation of different sources of selenium and vit. E supplementation on production and hatchability of duck egg in Burdwan district (2nd year)	FP: Whole day foraging + kitchen waste TO1: Farmers' practice + inorganic source of Se and Vit. E * TO2: Farmers' practice + organic source of Se and Vit. E * (* Selenium = 0.5 ppm and Vit. E = 50 mg per duck/ day)	7
OFT-7: Weaning Food evaluation	Evaluation of locally prepared nutritious weaning food on infants health status	Farmers' Practice: Traditional Weaning food (Rice flour, khichri, mashed banana etc.) TO1: Weaning food based on rice, moong dal, sugar mixed TO2 : Weaning food " Assam Mix"	5

OFT-8: Pond management	Effect of liming doses in fish ponds on fish productivity under pond ecosystem of Burdwan (2nd yr)	FP: Occasional use of lime TO 1: liming – pH based single dose. TO 2: liming – pH based split dose.	7
OFT-9: Nutrient management	Effect of regular application of organic fertilizer and supplementary feeding of IMC on fish productivity under pond ecosystem of Burdwan	FP: Occasional use of cow dung and occasional feeding with IMC TO 1: Cow dung- basal split dose- 5 t/ha + liming – pH based+ regular feeding of RB: MOC 1:1 @ 3% of total stocked fish biomass TO 2: Cow dung- basal split dose- 5 t/ha + liming – pH based+ regular feeding of commercial balanced feed supplement (EPIC) fish feed @ 3% of total stocked fish biomass	7
OFT-10: Impact assessment	Impact of SHG on Livelihood Security of its Member.	FP: Before formation of SHG TO1: Male SHG TO2: Female SHG	5 SHGs
OFT-11: Impact assessment	Impact of different extension agencies on socio economic status of Burdwan farmers	TO1: KVK TO2: Line Department TO3: Private partners	10

10. List of Projects to be implemented

Name of the project	Fund expected (Rs.)

11. No. of success stories to be developed

- a) Vermi compost technology: 01
- b) Banana Cultivation: 01
- c) Broiler Farming: 02
- d) Rural Crafts : 01

12. Scientific Advisory Committee

Date of SAC meeting held during 2013-14	Proposed date
10 th SAC meeting	July 2013
11 th SAC meeting to be held	June. 2014

13. Soil and water testing

Sample	No. of samples to be analysed
Soil	750
Plant	50
Water	25

14. Staff position

Sanctioned	In position	If vacant, since when
Programme Coordinator / Sr. Scientist	0	1(since 01.12.12)
SMS (Agril.) / T-6	1	0
SMS (Hort.) / T-6	1	0
SMS (A.H. & V.S.) / T-7	1	0
SMS (Fishery Sc.) / T-7	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)
Recurring		
i. Pay & allowance	77.27	105.77*
ii. Contingency	12.96	15.00
iii. TA	01.25	01.75
Non-recurring (specify)		
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
TOTAL		277.84

Note:

* Pay & Allowances includes monthly salary, arrears on promotion of four SMSs, NPA arrears of SMS (AH & VS), 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.

17. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data.

Annexure –I

A. Augmentation of paddy productivity through location specific modifications in SRI

Brief description of the technology:

The system of rice production, namely System of Rice Intensification, popularly abbreviated as SRI, is doing the rounds in many of the developing countries for some time now. Since its inception in the early eighties in Madagascar, it has shown promise in all the countries it spread to, including India. But somehow its spread is not satisfactory barring few rice growing pockets in our country. We are of the view that inadequate extension mechanisms and lack of proper insight into the system is the root cause for this. The system necessarily involves some meaningful modification in the management practices of rice production. But the need for documenting the system/practice necessitated imposing some boundary conditions like manicured seed bed, stringent transplanting conditions, heavy manuring, mechanized weeding and unconventional water management protocols in the. Hence in all the resource materials available on SRI as documented by various government as well as non government organizations like ANGRAU, WASSAN, WWF etc. advocated transplanting of 8-12 days old seedling in a square pattern using mechanical aids, heavy manuring, mechanical weeding and alternate wetting and drying which cumulatively are thwarting rice farmers towards its adoption since in most cases fulfilling all these conditions simultaneously is not possible under farmers' condition prevailing in the district of Burdwan.

Impact of practice :

Based on site of implementation and resource availability of implementing farmer we have made modifications in SRI regarding age of seedlings, transplanting condition, spacing, weed management and water management . Selected farmers from differing soil types and situations were

selected for implementation of SRI in the modified form. The increase in productivity ranged from 25 – 80%.

Since most of the farmers in KVKs present operational area, being under command area, can not implement SRI in the form as enumerated in books, there have shown wide acceptability of the modified system among the farmers in this region.

