

INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Agricultural Technology Application Research Institute, Zone-III
Umiam, Meghalaya
Format for Annual Action Plan Formulation of KVKs 2020

Name of the KVK/District:
Present Staff Position in KVK:

Sl. No.	Name of the incumbent	Gender (M/F)	Category (SC/ST/OBC/Others)	Designation	Discipline
1	Dr. HENRY SAPLALRINLIANA	Male	ST	Sr Scientist & Head	Soil Science & Agriculture Chemistry
2	SYED KHALIDUDDIN AHMED	Male	GENERAL	Scientist	Animal Science
3	Dr. MALSAWMKIMI	Female	ST	Scientist	Horticulture
4	F. ZORAMTHARI	Female	ST	Scientist	Plant Protection
5	Dr. OM PRAKASH	Male	GENERAL	Scientist	Agronomy
6	ISRAEL LALREMRUATA	Male	ST	Scientist	Agro Forestry
7	R. VANLALDUATI	Female	ST	Scientist	Soil Science
8	PRAKASH THAPA	Male	GENERAL	Farm Manager	Farm Manager -
9	SAMSON SAIRENGPUIA SAILO	Male	ST	PA (Computer)	Computer/IT
10	LALHRUAITLUANGI	Female	ST	PA (Home Sc)	Home Science
11	K.VANLALHMANGAIHI	Female	ST	Assistant	-
12	CRUSADE THANGPUH	Female	ST	Stenographer	-
13	LALNUNTLUANGA	Male	ST	Driver	-
14	R.DENGLIANA	Male	ST	Driver	-
15	VANLALVENHIMA	Male	ST	Supporting staff	-
16	Vacant	-	-	Supporting staff	-

Discipline: AGRONOMY

Name of the concerned Subject Matter Specialist: Dr.Om Prakash Mobile No: 9436960302 E-mail address: om2@rediffmail.com

Mandated activities	Thematic area	Details of Technology	Source and Year of release	Assess/ Refine	Area (in ha.)	Location	Period and Duration	No. of beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
On farm testing	Integrated Farming System/Integrated Crop Management	Maize + Beans - Vegetable pea cropping system for rainfed conditions under organic management system Technology: TO1: Maize+bean-V. Pea TO2: Maize - Pea (Local)	ICAR – NOFRI, Gangtok,2015	Assess	1	Tuisenphai, Phaitha,	May –Feb 22, 300 days	3	-	3				3
	Integrated Crop Management	Effect of sowing dates and mulching on productivity of soybean Technology: TO1: Sowing on 15 May with Mulching TO2: Sowing after 30 th May (Farmer practice)	Legume Research, 2018	Assess	1	Tualte, Chawngtlai, Tuimuk	May - Oct.21 130 days	3	-	3				3
Mandated activities	Thematic Area	Technology/Crop/Cropping System	Source and Year of release	Demon (No.)	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/demon.						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Front Line Demonstration	Varietal evaluation	Popularization of Groundnut Variety: ICGV 91114 D.O.T. : June Seed rate : 80kg/ha Observation : 1. Date of sowing 2.Grain yield (qt/ha) Farming Situation : Rainfed	ICRISAT, Hyderabad, 2007	10	5.0	Mualkawi, Khawzawl, Phaisen, Tuisen	July-November 150 days	06	04	10	-	-	-	10
	Integrated Nutrient Management	Popularization of Aman/AP-3 with <i>Rhizobium</i> inoculation Sowing: November Seed rate : 80 kg/ha Technology: <i>Rhizobium</i> coating @200gm/10Kg seed Observation : 1. Date of sowing	IIPR, Kanpur, 2017	20	10	Phaita, Tuimuk, Zotlang, Biate	Oct 21-Feb.22 90 days	10	10	20	-	-	-	20

		2. Seed yield (qt/ha) Farming Situation : Rainfed													
Mandated activities		Target group	Title of the training Programme and No. of Courses in bracket	No. of training prog.	Period of the year	Duration (in days)	On/Off campus	Number of participants						Grand Total	Remarks
								SC/ST			General				
								M	F	Total	M	F	Total		
On and Off campus training programmes	1.	Farmer and Farm women	Importance of crop rotation for improving soil health(2)	2	Aug –Dec 2021	2 days	On/ Off	40	20	60	-	-	60	60	
			Package of practices for cultivation of groundnut (2)	3	Aug –Dec 2021	2 days	On	55	35	90	-	-	90	90	
			Scientific cultivation of Field pea & benefits of Rhizobium inoculation (2)	4	Sept-Dec 2021	2 days	Off	90	30	120	-	-	120	120	
	2.	Rural Youth	Importance of mulching practices for Rabi crops. (1)	2	Sept-Dec 2021	1 day	Off	30	10	40	-	-	40	40	
	3.	Extension Personnel	Method and seed inoculation of Field pea. (1)	1	October 2021	1 day	On	10	05	15	-	-	15	15	
Vocational training programmes															
Sponsored training programmes															Sponsoring agency

Discipline: HORTICULTURE

Name of the concerned Subject Matter Specialist: Dr. Malsawmkimi Mobile No: 9612624738

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Mandated activities	S. No.	Problem diagnosis (with extent/ severity of problem)	Name/ Details of Technology to be Assessed/ Refined (in Specific)	Source and Year of release	Assess/ Refine	Area (in ha.)	Location	Period and Duration	Number of trials	Name of parameters to be tested
On farm testing	1	Lack of high yielding variety with bacterial wilt resistant variety	Introduction of high yielding variety of Brinjal Arka Harshita TO1: Arka Harshita TO2: Farmers practice	IIHR 2015		0.75	Tualte, Biate and Khawzawl	March-May 2021	3	1. Plant height (cm) 2. Days to maturity (days) 3. No of fruit per vine 4. fruit weight (g) 5. Yield/ha (q)
	2	Evaluation of Water melon variety Arka Muthu	Use of traditional varieties with low yield and bush type watermelon not yet identified in the District	IIHR, 2010 Seed rate:3.5kg/ha NPK: 200:100:100 kg/ha Spacing g: 2X1m		0.75	Ngopa, Chawngtlai and Biate	Feb - April, 2021	3	1. Vine Length (cm) 2. Days to maturity 3. No of fruit per plants 4. fruit weight (g) 5. Yield/ha (q) 6. Economics
	3	Introduction of early flowering okra variety Arka Nikhita	High yielding with early flowering variety not yet identified	IIHR, 2017 Seed rate: 8-10 kg seeds/ha Spacing: 60 X45 cm NPK: 150:112: 75 kg/ha		0.75	Biate, New Chalrang and Tuipui	Aug-oct, 2021	3	1. Plant height (cm) 2. Days to maturity (days) 3. No of fruit per vine 4. fruit weight (g) 5. Yield/ha (q) 6. Economics

Mandated activities		Thematic Area	Name & Details of Technology to be demonstrated	Source and Year of release	Crop/ cropping system	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/demon.						Grand Total	
									SC/ST			General				
									M	F	Total	M	F	Total		
Front Line Demonstration	1	Varietal evaluation	Evaluation of IARI carrot variety Pusa Vrishti	IARI, 2009	Irrigated	6.75	Ngaizawl, Chawngtlai, Biate, Khawzawl, Tualte	Oct 2021- feb 2022	10	5	15			15	15	
	2.	Varietal evaluation	Popularization of tomato variety Arka Samrat	IIHR, 2016	Irrigated	6.75	Biate, Chawngtlai, new chalrang	June- September 2021	10	5	15			15	15	
	3	Varietal evaluation	Popularization of Onion Variety NHRDF Red 4	NHRDF, 2016	Irrigated	2.5	Khawzawl, Tuipui, New Chalrang and Chawngtlai	Sept-nov, 2021	5	5	10			10	10	
Mandated		Target group	No. of training	Title of the training	Period & duration	On/Off	Number of participants							Remarks		

activities			progs and No. of Courses in bracket	Programme	(in days)	campus	SC/ST			General			Grand Total	
							M	F	Total	M	F	Total		
On and Off campus training progr	1	Farmers & Farm Women	1 (2)	Scientific management of Khasi mandarin	2020-2021 (3 days)	ON	30	20	10				30	
			2 (4)	Improve production technology of Onion	2020-2021 (3 days)	OFF	60	30	90				90	
			1(2)	Improved technology in production of Tomato cultivation	2020-2021 (3 days)	OFF	15	10	5				15	
			1(2)	Improved technology in production of water melon cultivation	2020-2021 (3 days)	OFF	15	10	5				15	
	2.	Rural Youth	1(2)	Technique of Winter vegetable cultivation and nursery management	2020-2021 (3 days)	OFF	10	5	15				15	
	3.	Extension Personnel	1(2)	Improved production technology of Tomato var. Arka Abhed	2020-2021 (1 days)		8	2	10				10	

Vocational training programmes	1.	Farmer and Farm women												
	2.	Rural Youth	1(2)	improve-production technology of Tomato	2020-2021 (3 days)	OFF	10	5	15				15	
	3.	Extension Personnel												
	4.	Civil Society												
	5.	NGO(including school drop outs)												
	6.	Others (Pl. specify)												
Sponsored training programmes														Sponsoring agency
	1.	Farmer and Farm women												-
	2.	Rural Youth												
	3.	Extension Personnel												
	4.	Civil Society												
	5.	NGO(including school drop outs)												
	6.	Others (Pl. specify)												

Discipline: PLANT PROTECTION (Plant Pathology)

Name of the concerned Subject Matter Specialist: F Zoramthari **Mobile No:** 9862842195 **E-mailaddress:** fzori@yahoo.com

Mandated activities	Thema tic Area	Name of Technology	Source and Year of release	Assess/Re fine	Area (in ha.)	Location	Period and Duratio n	Number of beneficiaries/ trials						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
	Product evaluation (Efficacy)	Bioefficacy of newer insecticides against tomato fruit borer (<i>Helicoverpa armigera</i>) TO -1 : Three number of sprays with Chlorantraniliprole 18.5 % SC @ 2.97 /10 litre of water during reproductive stage of the crop TO-2 : Farmers practice (No treatment)	Deptt of Entomol ogy, Colle ge of Agricult ure, Parb ani (MS), 2018	A	1.2	Tuipui, Tualte Neihdawn	June-Oct	2	1	3				3
	Product evaluation (Efficacy)	Field evaluation of novel insecticides against Blister beetle , Mylabris spp in legumes T01 1)Seed treatment with Imidacloprid 48 FS 1.25ml/kg seed. 2)Two number of sprays with Thiacloprid 21.7 Sc @650ml/ha T02- Farmers Practice (No treatment)	SASAAR D,2019	A	1.2	Tuipui, Tualte , Ngaizawl	Sept-Nov	3		3				3
Mandated activities	Thematic Area	Name of Technology demonstrated	Source and Year of release	Crop/Cropping system	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/ demon.						
								SC/ST			General			Grand Total
								M	F	Tot al	M	F	Total	

Front Line Demonstration	Integrated Disease Management	Demonstration on IDM of Late Blight (Phytophthora infestans) of Potato (var Kufri Megha) Soil application – T. harzianum and Pseudomonas fluorescens 15 days before planting -Tuber treatment –Mancozeb@0.25% -Prophylactic spray –Mancozeb@0.2% twice at weekly before onset of disease -Curative spray with Cymoxil + Mancozeb @0.3%.	ICAR-KVK,Kolar and Sirsi,Karnataka,2018	Potato	4	Neihdawn ,tualte,tui pui,Phaitha,zotlang, Ruantlang ,Selam ,Ngaizawl		9	1	10				10
	Integrated pest Management	Demonstration on Integrated Pest management of Fall Army Worm 1.Seed treatment with Cyantraniliprole 19.8% + Thiomethoxam 19.8% @ 4ml/1 kg 2.Spraying with NSKE 5% 1 week after planting. 2.Spraying with Bt @ 2gm/litre water 2-3 weeks after planting 3) Installation of Pheromone trap @ 4-5 traps/acre 4) ETL based spraying with Emamectin benzoate 5% SG @ 0.4 g/lit	ICAR,2019	Maize	2	Ngaizawl, Chawngtlai,Tuipui, Tualte		10		10				10
Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/Off campus	Number of beneficiaries							Remarks
							SC/ST			General			Grand Total	
							M	F	Total	M	F	Total		
On and Off campus training programmes	Farmer and Farm women	1)IPM in Potato(2) 2)IPM in Maize(2)	2 2	February 2021 May 2021	2 2	On and off	60	30	90				90	

	Rural Youth													
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	Others (Pl. specify)													
Vocational training programmes	Farmer and Farm women	1)IPM in Tomato(1) 2)Mushroom cultivation(2) 3) Preparation of Organic Pesticides(1) 4)IPM in Citus (2)	1 2 1 2	Jan 2021-Dec 2021	1 2 1 2	On and off	120	90	210				210	
	Rural Youth	1)Mushroom ultivation(2) 2)Preparation of Organic Pesticides(2)	2 2	Jan 2021-Dec 2021	1 1	On and off	40	40	80				80	
	Extension Personnel	New generation pesticides (2)	2	Jan 2021-Dec 2021	1	on	15	5	20				20	
	Civil Society													
	NGO(including school drop-outs)													
	Others (Pl. specify)													
Sponsored training programmes														Sponsorin g agency
	Farmer and Farm women	IPM of Paddy(2)	2	Jan 2021-Dec 2021	2	off	27	13	40				40	ATMA
	Rural Youth													
	Extension Personnel													
	Civil Society													
	NGO(including school drop-outs)													
	Others (Pl. specify)													

Discipline: SOIL SCIENCE

Name of the concerned Subject Matter Specialist: R.Vanlalduati Mobile No:9612254175

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Mandated activities	S. No.	Problem diagnosis (with extent/ severity of problem)	Name/ Details of Technology to be Assessed/ Refined (in Specific)	Source and Year of release	Assess/ Refine	Area (in ha.)	Location	Period and Duration	Number of trials	Name of parameters to be tested
On farm testing										
	1.	Production of rice is mainly constrained by iron (Fe) induced phosphorus deficiencies.	<p>Root dipping in SSP-MC Slurry method of P in Lowland Paddy</p> <p>Technology</p> <p>T01- Step-I</p> <p>A mud slurry bed (45 sq.m) is prepared in one corner of the main field. 7.0 kg SSP is to be mixed thoroughly with mud. Roots of uprooted rice seedling bundles need to be washed free of adhered mud and then roots are to be dipped in the SSP amended mud slurry bed for over-night.</p> <p>Step-II</p> <p>A mud slurry bed is to be prepared in one corner of the main field. 5 kg finely grounded dry compost along with either 4 kg MC biofertilizer or 500ml liquid MC biofertilizer are to be mixed thoroughly with mud in the slurry bed. The SSP slurry treated roots of rice seedling bundles are to be dipped in to MC amended mud slurry bed and incubated for 2 h.</p>	College of Post Graduate Studies, CAU, Umiam, 2016	A	0.4	Khawzawl, Zotlang, Rabung	May-December 2020	3	<p>1. Soil fertility status (SOC, AV.N, AV. P & AV.K), EC</p> <p>2.</p> <p>i. Root growth at 40 to 45 DAT</p> <p>ii. Number of effective tillers/ hill</p> <p>iii. Nos. of grains/panicle</p> <p>iv. HI</p> <p>v. B:C Ratio</p>

			T02 -Farmer Practice(No treatment)												
	2.	Improper Nutrient Management and Soil acidity	Enhancing Lentil productivity through Sustainable Nutrient Management Practices in Rice Fallow To1 NPK-10:18:33 Kg/ha+ 200 kg lime/ha T02 -Farmer Practice(No treatment)	ICAR, Tripura, 2018	A	0.2	Zotlang, Biate	November 2020-March 2021	3	1.Soil fertility status(SOC,AV.N,AV. P &AV.K) 2.Pods/Plant 3.Seed yield (kg/ha)					
Mandated activities		Thematic Area	Name & Details of Technology to be demonstrated	Source and Year of release	Crop/ cropping system	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/demon.						
	1.	Nutrient management in Potato	Integrated Nutrient Management in Potato (<i>Solanum tuberosum</i>) cv. Kufri Megha <u>Technology</u> To1 NPK-150:100:120 Kg/ha Vermicompost-2.5t/ha N fertilizers will be applied as per treatment at the last ploughing, the whole quantity of organic manure(Vermicompost) will also be incorporated in the soil as per treatment.	Department of Horticulture Faizabad,U.P.In dia	Irrigated	5	Chawngtlai, Tuipui, Tualte	October-2020March 2021	SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
									7	3	10				10

			T02-Farmer Practice(No treatment) Spacing : 60cm X 20 cm												
	2.	Soil Health	Rural composting for improvement of Soil Health and Sustainable Agriculture	IARI, New Delhi, 2016	Irrigated	1	Tualte, Tuipui	January 2020-December 2020	6	4	10				10
	6.	Soil microbes (beneficial)													
	7.	Any other (Pl. specify)													
Mandated activities		Target group	No. of training progs and No. of Courses in bracket	Title of the training Programme	Period & duration (in days)	On/Off campus	Number of participants						Grand Total	Remarks	
							SC/ST			General					
							M	F	Total	M	F	Total			
On and Off campus training programmes	1.	Farmer and Farm women	(2)(2) (1) (2) (1) (2) (1)(2)	Promotion of organic farming Biofertilizers and its uses INM and its importance Vermicomposting and Azolla culture	2020-2021 (3 days each)	Off Off On On Off	20 10 10 10 15	7 15 8 10 10	27 25 18 20 25				27 25 18 20 25		
	2.	Rural Youth													
	3.	Extension Personnel													
	4.	Civil Society													

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Discipline: AGROFORESTRY

Name of the concerned Subject Matter Specialist: Israel Lalremruata **Mobile No.:** 9436153750

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Mandated activities	Thematic Area	Name of Technology	Source and Year of release	Assess/R efine	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/ trials						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
On farm testing	Introduction of MPTs in existing Systems													
	Introduction of MPTs in newly Developed Systems													
	Introduction of high value crops/ livestock in different systems													
	Reclamation of degraded area with MPTs etc.													
	Introduction of bio-fuel species/ tress													
	Canopy Management (Pruning/ Topping)													
	Secondary forestry diversification (Bamboo/ Broom grass etc.)													
	Introdution of settled agriculture farming	Modelling agroforestry system in <i>jhum</i> field for permanent agriculture Technology: T01: Two rows of banana & pineapple- 1.5x1.5m & 30x60cm ii) uncleared patch of 5-10m at regular interval iii) Bee box-7m apart T02: Farmers' Practice (Traditional farming)	ICAR,Umiam,Megh alaya(2017)	A	3.48	Tualte & Biate	April 2021 onwards	2	-	2	-	-	-	2
	Introduction of legume perennial crops in <i>Jhum</i> land	Potato based Hedgerows cropping system Technology: T01: Hedgerows cropping of Potato & <i>Tephrosia</i> T02: Sole Potato Spacing 20-25 cm x 50-60cm, <i>Tephrosia</i> -	Assam Agricultural University, Jorhat, Assam (2015)	A	1.06	Tualte & Biate	Feb2021 onwards	2	-	2	-	-	-	2

		15cmx5m												
Mandated activities	Thematic Area	Name of Technology	Source and Year of release	Crop/Crop ping system	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/ demon.						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Front Line Demonstration	Introduction of MPTs in existing Systems													
	Introduction of MPTs in newly Developed Systems													
	Introduction of high value crops/ livestock in different systems													
	Reclamation of degraded area with MPTs etc.													
	Introduction of bio-fuel species/ tress													
	Canopy Management (Pruning/ Topping)													
	Secondary forestry diversification (Bamboo/ Broom grass etc.)													
	Introduction of Hedgerows farming	Contour cropping of Arhar in Ginger field for supplement of soil nutrients in jhum field Technology: T01: Contour cropping of Arhar (5m x 15cm) and Ginger (30x30cm) T02: Sole Ginger	Assam Agriculture University, Jorhat, Assam,2015	Rainfed	5	N.Chalrang, Chawngtlai	April 2021 onwards	4	1	5	-	-	-	5
	Introduction of Hedgerows farming	Contour cropping of Tephrosia in M.Orange field for supplement of soil nutrient. Technology: T01: Contour cropping of <i>Tephrosia candida</i> (5m interval)and M.Orange (5x5m) T02: Sole M.Orange	Asam Agriculture University, Jorhat, Assam, 2015	Rainfed	5	N.Chalrang, Biate	April2021 onwards	3	2	5	-	-	-	5

Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of trainig	Period of the year	Duration (in days)	On/Off campus	Number of beneficiaries							Remarks
							SC/ST			General			Grand Total	
							M	F	Tot	M	F	Total		
On and Off campus training programmes	Farmer and Farm women	Role of nitrogen fixing trees for crop production(1)	1	2021	3 days	On	30	25	55	-	-	-	55	
		Concept on Sloping agriculture land technology(1)	2	2021	3 days	Off	40	20	60	-	-	-	60	
		An introduction to bee keeping(1)	2	2021	3 days	Off	30	20	50	-	-	-	50	
	Rural Youth	Importance of nitrogen fixing trees(1)	2	2021	1 day	On	15	5	20	-	-	-	20	
		An introduction to bee keeping(1)	2	2021	1 day	Off	40	20	60	-	-	-	60	
	Extn. Personnel	Concept on sloping agriculture land technology(2)	1	2021	1 day	On	8	2	10	-	-	-	10	
	Civil Society													
	NGO(including school drop-outs)													
	Others (Pl. specify)													
Vocational training programmes	Farmer and Farm women	Management of hedgerows in agroforestry farming model(1)	2	2021	1 day	on	10	5	15	-	-	-	15	
	Rural Youth													
	Extn. Personnel													
	Civil Society													
Sponsored training programmes														Sponsoring agency
	Farmer and Farm women	Beneficial effect of tree- crop combination(1)	2	2021	2 days	Off	25	5	30	-	-	-	30	
	Rural Youth	Management of hedgerows in agroforestry farming model(1)	1	2021	2 days	OFF	20	10	30	-	-	-	30	
	Extension Personnel													
	Civil Society													
	NGO													

Extension Activities of the KVK proposed for the year 2020

Specific activity	No. of activities	Period of the year	Duration (in days)	Number of beneficiaries (No.)							
				SC/ST			General			Grand Total	
				M	F	Total	M	F	Total	M	F
Diagnostic visit	60	2021	1 day each	180	60	240				180	60
Advisory services/ telephone talk	550			400	150	550				400	150
Training Manual											
Celebration of Important days	10			180	50	230				180	50
Exhibition	1		1	100	50	150				100	50
Exposure visit	1			13	5	18				13	5
Extension literature (Leaflet/ folders/ Pamphlets)	12										
Extension / technical bulletin	8			180	70	250				180	70
News letter											
Newspaper coverage	30										
Research publications	3										
Success stories/ Case studies	3										
Farm Science Clubs' Convenors meet											
Farmers' Seminar	1		1	40	20	60				40	20
Farmers' visit to KVKs	265										

Ex-trainees' meet											
Field day	4			150	50	200				150	50
Film show											
Radio Talk	0										
TV talk	1										
Kishan Goshthi	5		1 day each	100	25	125				100	25
Group Meeting	2			40	20	60				40	20
Kishan Mela	1			100	50	150				100	50
Soil Health Camps	1			40	5	45				40	5
Animal Health Camps											
Awareness camp Mobile Agro-Advisory (Messages/ Beneficiaries)	150			300	100	400				300	100
Method demonstration	6		1 day	60	30	90				60	30
Scientists' visit to farmers' field	40		1 day each	180	45	225				180	45
Workshop/ Seminar	1		1 day	70	10	80				70	10
Soil Testing	10		1 day each								
Water Testing											
Plant Testing											
Manure Testing											
Distribution of SHCs											
Any other (Pl. Specify)											