

Krishi Vigyan Kendra, Roha- Raigad

Details of On Farm Trials/ Technology Assessment proposed during 2022

S. No.	Crop/enterprise & Season	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the Intervention (Rs.)	Parameters to be studied	Team members
1	Finger millet Kharif	Low yield of local Variety (9 to 10 q/ha)	Varietal Evaluation of Finger millet during kharif season	T ₁ – Farmers practice Local Variety (Red Nagali) T ₂ – Technology assess (Dapoli-3)	Dr. BSCK V, Dapoli	Introduction of new variety of Finger millet Dapoli Safed-1, (Kokan Safed-1			5 (1 ha)	1000	Grain yield(Q/ha) + strow yield(Q/ha) Cost Benefit Ratio	Dr. M.S. Talathi, Shri. J. S. Arekar, Shri. P.M. Mandavka Shri.S.J. Padhye Shri. S. S. karle,
2	Rice Kharif	Low yielded of local variety (15-18 q/ha) Lodging	Varietal evaluation of Rice during <i>Kharif</i> season	T₁ – Farmers practise (Local variety) T₂- Technology Assessed (Ratnagiri-7, Red Rice)	Dr. BSCK V, Dapoli	Rice variety Ratnagiri – 7 (Red Rice)			5 (1 ha)	5000	Grain yield (Q/ha) Straw yield (Q/ha) Cost benefit Ratio	Dr. M.S. Talathi, Shri. J. S. Arekar, Shri. P.M. Mandavka Shri.S.J. Padhye Shri. S. S. karle,
3	Groundnut Rabi	Low yield of local variety of Groundnut, SB-11 (10-15 /ha)	Varietal Evaluation of Rabi cum Summer Groundnut	T ₁ – Farmers practice (Cultivation of SB-11 Variety) T ₂ – Technology assess (Konkan Bhuratna)	Dr. BSCK V, Dapoli	Konkan Bhurnta			5 (1 ha)	1000	Grain yield(Q/ha) StrawYield(Q/ha) Cost Benefit Ratio	Dr. M.S. Talathi, Shri. J. S. Arekar, Shri. P.M. Mandavka Shri.S.J. Padhye Shri. S. S. karle,
4	Mango Rabi	Death of plant due to disease	Management of branch drying disease of mango	T₁ – Farmers practise (no any management practice)	Dr. BSCK V, Dapoli	Copper oxy chloride	2.5 g m/ 1 lit	2500	4	10000	1) Disease incidence	Shri. J. S. Arekar, Dr. M. G. Manjrekar, Shri. S. S. karle, Dr. M.

												S. Talathi,
				T₂- Technology Assessed (Cut the disease infested branches and use coc paste)								
5	Coco nut Rabi	Heavy pest incidence leads to low yield	Management of black headed caterpillar by using bio-agent	T₁- No management practice (Farmers practice) T₂- (Technology assessed) release of Bioagent <i>Goniozus nifentides</i>	Dr. BSKK V, Dapoli	Bioagent <i>Goniozus nifentides</i>	3500 / ha	2500	4	10000	Pest incidence	Shri. J. S. Arekar, Dr. M. G. Manjrekar Shri. S. S. karle, M.S. Talathi,
6	Tuber Crops - Elephant Foot Yam Kharif May-June	Sustainable farming- yield maximization	Assessing the varietal performance of elephant foot yam var. Gajendra	Varietal performance T₁ - Farmers' Practice (Local variety) T₂ - Technology assessed (var. Gajendra)	Dr. B.S.K. K.V. Dapoli	Seeds	20 kg	1000/-	5	5000/-	1) Time of sowing 2) Planting distance and method 3) Days required for harvesting 4) Crop yield (qt/ha) 5) Net returns	Dr. R. G. Manjarekar, Shri. J.S. Arekar, Shri. P.M. Mandavkar, Dr. M.S. Talathi, Shri. S. S. Karle
7	White Onion Rabi/ Summer December	Yield maximization	Assessing the effect of spacing and time of transplanting on yield performance of white onion var. Alibag local	Cultivation technology T₁ - Farmers' Practice (without any plant spacing and time of transpl.) T₂ - Technology assessed (transpl. at 10 X 15 cm. spacing during 2 nd - 3 rd week of	Dr. B.S.K. K.V. Dapoli	Seeds	0.5 kg	1000/-	5	5000/-	1) Plant population per sq. meter 2) Days required for harvesting 3) Crop Yield (qt./ha) 4) Net returns	Dr. R. G. Manjarekar, Shri. J.S. Arekar, Shri. P.M. Mandavkar, Dr. M.S. Talathi, Shri. S. S. Karle

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8	Mango Summer December	Improvement in fruit quality.	Effect of bagging of fruits in Alphonso mango.	Package of practice T₁ - Farmers' practice (control-without any bagging) T₂ - Technology assessed (News paper bagging)	Dr. B.S.K. K.V. Dapoli	News paper bags	2 kg	500/-	5	2500/-	1) Days required for harvesting after fruit set 2) Quality parameters (weight, colour, T.S.S. and acidity of fruit 3) Crop yield (kg/tree and qt./ha) 4) Net returns	Dr. R. G. Manjarekar, Shri. J.S. Arekar, Shri. P.M. Mandavkar, Dr. M.S. Talathi, Shri. S. S. Karle
9	Rice Kharif	High production cost, Scarcity of labour, Delay in field operations	Direct seeding of paddy using drum seeder	T₁ - Farmers' practice (Manual Transplanting) T₂ - Technology assessed (Using drum seeder)	TNAU, Coimbatore	Drum seeder	1	1,000	6	6,000	Field capacity (ha/hr), Man-days required per ha, Number of weedings, Crop yield, Cost savings, Field efficiency	Er. S.J.Padhye, Dr. M.S.Talathi
10	Rice Kharif	High cost, Scarcity of labour, Delay in field operations	Use of vertical conveyor reaper for harvesting of paddy	T₁ - Farmers' practice (Harvesting with local sickle) T₂ - Technology assessed (Use of vertical conveyor Reaper)	Dr. BSKK V, Dapoli	Reaper	1	1,000	6	6,000	Field capacity (ha/hr), Saving in man-days per ha, Cost savings, Shattering losses, Field efficiency	Er. S.J.Padhye, Dr. M.S.Talathi

3.3. Frontline Demonstrations

A. Details of FLDs to be organized –(Oilseeds, pulses, cereals, cotton, commercial crops, horticulture crops, vegetables, spices and condiments, fodder crops, etc)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmer s/ demon.	Name of the village	Parameters identified
1	Rice	Sahyadri-4	To introduce newly developed rice hybrid alongwith package of practices	Whole package	45000/-	Kharif 2022	4	10	Sudhagad Mahad Mangaon Roha	1.Incidence of pest and diseases 2. Grain yield (q/ha) 3. Straw yield (q/ha)
2	Rice	Karjat - 3	To introduce the variety of rice alongwith package of practices	Whole package	75000/-	Kharif 2022	7.5	20	Sudhagad Mahad Mangaon Roha	1.Incidence of pest and diseases 2. Grain yield (q/ha) 3. Straw yield (q/ha)
3	Rice	Ratnagiri-7	To introduce the variety of rice alongwith package of practices	Whole package	50000/-	Kharif 2022	5	13	Sudhagad Mahad Mangaon Roha	1.Incidence of pest and diseases 2. Grain yield (q/ha) 3. Straw yield (q/ha)
4	Nagli	Konkan Safed - 1 (Dapoli -1)	To introduce improved variety of Nagli	Whole package	25000/-	Kharif 2022	5	15	Sudhagad Mahad Mangaon Roha	1.Incidence of pest and diseases 2. Grain yield (q/ha) 3. Straw yield (q/ha)
5	Rice	Karjat - 9	To introduce the variety of rice alongwith package of practices	Whole package	50000/-	Rabi-summer 2022-23	4	10	Sudhagad Mahad Mangaon Roha	1.Incidence of pest and diseases 2. Grain yield (q/ha) 3. Straw yield (q/ha)
6	Wal	Konkan Wal No.2	To introduce the variety of rice alongwith package of practices	Whole package	30000/-	Rabi 2022-23	4	10	Sudhagad Mahad Mangaon Roha	1.Grain yield (q/ha) 3. Straw yield (q/ha)
7	Cowpea	Konkan Sadabhar	To introduce the variety of rice alongwith package of practices	Component	5000/-	Rabi 2022-23	1	10	Sudhagad Mahad Mangaon Roha	1.Grain yield (q/ha) 2. Straw yield (q/ha)

8	Cowpea	Konkan Safed	To introduce the variety of rice alongwith package of practices	Component	5000/-	Rabi 2022-23	1	10	Sudhagad Mahad Mangaon Roha	1. Grain yield (q/ha) 2. Straw yield (q/ha)
9	Okra	KB/Hybrid	Varietal evaluation	Varietal demonstration	10000/-	Kharif 2021	1	10	Tala Roha, Mangaon, Murud, Alibag	1. Days required for harvesting 2. Yield of pods (qt/ha) 3. Net returns
10	Rice	Karjat-3	Pest Management	Insecticide	4000/-	Kharif 2021	1	10	Sudhagad Mahad Mangaon Roha	Incidence of pest yeid/ha
11	Cow pea and other pulses	Konkan Sadabahar and Local	Disease management	Seed treatment with <i>Trichoderma</i> & Carbendazim	2500/-	Rabi 2022-23	1	10	Mangaon Roha Mahad Alibag	1. Parcent disease incidence 2. Grain yield (q/ha)
12	Breaker Yam	Kamal Sundari	Varietal evaluation	Varietal demonstration	5000/-	Kharif 2022	0.10	10	Tala Roha, Mangaon, Murud, Alibag	1. Days required for harvesting 2. Yield (qt/ha) 3. Net returns
13	Yard long bean	Konkan Wali	Varietal evaluation	Varietal demonstration	2000/-	Rabi 2022-23	0.10	10	Tala Roha, Mangaon, Murud, Alibag	1. Days required for harvesting 2. Yield of pods (qt/ha) 3. Net returns
14	Okra	Konkan Bhendi	Varietal evaluation	Varietal demonstration	10000/-	Rabi 2022-23	1.0	10	Tala Roha, Mangaon, Murud, Alibag	1. Days required for harvesting 2. Yield of pods (qt/ha) 3. Net returns
15	Watermelon	Ayesha, Sugar queen	Irrigation Engg.	Plastic mulching for watermelon	Mulching paper 30,000/-	Rabi 2022-23	1	5	Mangaon	Irrigation interval, Irrigation frequency, B:C ratio
16	Resource Conservation	-	Soil & Water Conservation	Konkan Vijay Bandhara	Plastic lining 8,000/-	Rabi 2022	2	4	Roha, Mangaon	Volume of water made available, Duration of water storage
17	Fish	Tilapia	To introduce Monosex Tilapia	Whole package	1,00,000/-	August	0.40	2	Pen, Roha	Growth Production B:C ratio
					Total		38.60	169		

**Annexure - I
Training Programme**

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
April. 22	PF	Preparation of Mat nursery	1	15	5	20	-	-	-	20
July. 22	PF	Raising of seed bed nursery for rice	1	15	5	20	-	-	-	20
July. 22	PF	Methods of transplanting of rice.	1	15	5	20	-	-	-	20
Aug. 22	PF	Importance of intercultural operation in Kharif oilseed crop	1	15	5	20	-	-	-	20
Sept. 22	PF	Seed production Technology for hybrid rice	1	15	5	20	-	-	-	20
Oct. 22	PF	Doubling farmers income	2	15	5	20	-	-	-	20
Nov. 22	PF	Hybrid Rice technology	1	15	5	20	-	-	-	20
Horticulture										
July,22	PF	Nursery management of fruit crops.	2	20	-	20	-	-	-	20
Sept.,22	PF	Nursery management for rabi vegetables	2	40	-	40	-	-	-	40
Livestock prod.										
	PF/FW									
Agril. Engg.										
Jul.22	PF	Mechanization in transplanting of paddy	2	10	8	18	2	-	2	20
Oct.22	PF	Modern methods of paddy threshing	1	8	6	14	2	4	6	20
	PF									
Fisheries										
Mar.22	PF	Alternative aquaculture Techniques in the context of present aquaculture scenario	2	40	-	40	-	-	-	20
Agril.Extn.										
July.22	PF	Leadership development for integrating livelihood activities in village	2	20	10	30	5	5	10	40
Sept. 22	PF	Development of entrepreneurial ability with respect to allied agril. enterprises	2	40	-	40	-	-	-	20
Plan prot.										
Oct. 22	PF	Care and handling of pesticide and equipment's	1	20	-	20	-	-	-	20
Dec.. 22	PF	Care and handling of pesticide and equipment's	1	20	-	20	-	-	-	20
Soil Health										
		KVK								
		Total	23	323	59	382	9	9	18	360

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
Aprl. 22	PF	Importance of cultivation practices	1	15	5	20	-	-	-	20
May. 22	PF	Importance of manures and fertilizers	1	15	5	20	-	-	-	20
May 22	PF	<i>Importance of seed treatment</i>	1	10	10	20	-	-	-	20
July 22	PF	Use of green manuring in rice	1	10	10	20	-	-	-	20
Aug. 22	PF	Methods of weed control	1	10	10	20	-	-	-	20
Oct. 22	PF	Advance technique of threshing and storage of food grain crops	1	10	10	20	-	-	-	20
Oct. 22	PF	Importance of Seed Treatments for Rabi Crops	1	10	10	20	-	-	-	20
Nov.22	PF	Integrated farming system approach	2	20	20	40	-	-	-	40
Dec.22	PF	Rice based cropping system a need of today	2	20	20	40	-	-	-	40
Dec.. 22	PF	Integrated nutrient management in rice based crop sequence	2	20	20	40	-	-	-	40
Horticulture										
May, 22	PF	Cultivation technology of tuber crops (yam)	1	20	-	20	-	-	-	20
June, 22	PF	Application of PBZ for regular bearing in Alphonso Mango	1	20	-	20	-	-	-	20
Aug., 22	PF	Cropping systems in Coconut	1	15	5	20	-	-	-	20
Sept., 22	PF	Rejuvenation of old mango orchard	1	15	5	20	-	-	-	20
Oct., 22	PF	Cultivation of high value vegetable crops.	2	15	5	20	-	-	-	20
Oct., 22	PF	Cultivation Technology of high value plantation and spices crops.	2	15	5	20	-	-	-	20
Dec., 22	PF	Processing of vegetables tomato ketchup & carrot preserve.	2	-	20	20	-	-	-	20
Dec., 22	PF	Management of Mango blossom for controlling fruit drop	1	15	5	20	-	-	-	20
Live Stock Production.										
	PF									
	PF									
Agril. Engg.										
April.22	PF	Tillage implements for hill agriculture	1	10	5	15	5	-	5	20
May 22	PF	Appliances for utilization of solar energy	2	5	10	15	-	5	5	20
May 22	PF	Processing of minor fruits	2	5	10	15	-	5	5	20
June 22	PF	Measures to prevent soil erosion	1	8	8	16	2	2	4	20
Aug.22	PF	Use of conoweeder for interculture operation in paddy	1	6	6	12	4	4	8	20

Sept.22	PF	Temporary water harvesting structures	1	6	6	12	4	4	8	20
Sept.22	PF	Structures for water conservation and gully control	1	6	6	12	4	4	8	20
Nov.22	PF	Water management of Rabi crops	1	6	6	12	4	4	8	20
Dec. 22	PF	Agricultural waste and biomass utilization	1	4	6	10	2	8	10	20
Agril. Extn.										
Jun. 22	Pw	Empowerment of rural women through agril. & allied farm enterprises an small scale	1	-	20	20	-	20	20	40
Aug. 22	PF	Formation& management of farmers club for integrating the income generation activities	1	20	10	30	5	5	10	40
Dec. 22	Pw	Formation and management of self-help groups (SHGs) for integrating off farm income generation activities	1	-	20	20	-	20	20	40
Dec. 22	PF	Improved strategies for co operatives to compete in marketing	1	20	-	20	-	-	-	20
Dec. 22	PF/FW	IFS strategies for Doubling the Farmers Income (DFI)	2	20	10	30	5	5	10	40
Plant Protection										
Jan.22	PF	Oyster mushroom cultivation	1	20	-	20	-	-	-	20
April.22	PF	Integrated pest and disease management in Coconut and Arecanut	1	20	-	20	-	-	-	20
July.22	PF	Integrated pest and disease management in Cucurbitaceous crops	1	20	-	20	-	-	-	20
Aug. 22	PF	Identification of pests disease of rice and beneficial insect by preparation of charts etc.	1	20	-	20	-	-	-	20
Sep.22		Use of biofertilizers in pulses	1	20	-	20	-	-	-	20
Nov.22		Integrated pest and disease management in Mango and Cashew	1	20	-	20	-	-	-	20
Nov.22		Oyster mushroom cultivation	2	20	-	20	-	-	-	20
Dec. 22		Honeybee Keeping	1	20	-	20	-	-	-	20
Fisheries										
Feb.22	PF	Pre-stocking management of Fish Farm/ponds	1	20	-	20	-	-	-	20
Mar.22	PF	Modern Technology in fish culture- Biofloc technology	1	20	-	20	-	-	-	20
April.22	PF	Modern Technology in fish culture	1	20	-	20	-	-	-	20
May.22	PF	Species specific feed preparation -live feed and Artificial feed	1	20	-	20	-	-	-	20
June.22	PF	Carp fry and fingerling Production and stunted yearlings' production	1	20	-	20	-	-	-	20
July. 22	PF	Paddy-cum fish farming	1	20	-	20	-	-	-	20

Aug.22	PF	Feed and water quality management	1	20	-	20	-	-	-	20
Sep. 22	PF	Mud crab farming	3	20	-	20	-	-	-	20
Oct.22	PF	Ornamental fish rearing and breeding	1	20	-	20	-	-	-	20
Total			61	711	288	999	35	86	121	1120

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Fisheries	Shrimp farming	<i>Litopenaeus</i> Vannameishrimp farming	Jan.22	3	20	-	20	-	-	-	20
Rice	Rice Technology	Hybrid technology	April. 22	3	20	-	20	-	-	-	20
	Post-harvest technology and value addition	Processing of fruits (mango, cashew, karonda and Jackfruit).	May, 22	3	5	15	20	-	-	-	20
Rice	Mechanization	Mechanization in rice farming	Jun. 22	4	20	-	20	-	-	-	20
	Entrepreneur Development	Goat farming allied agril. Enterprise for self-empowerment	Jun. 22	3	20	-	20	-	-	-	20
	Vermicompost	Vermicompost of preparation	Jun.22	3	20	-	20	-	-	-	20
	Nursery management of horticulture crops.	Nursery management of fruit crops.	July, 22	2	20	-	20	-	-	-	20
	Aberrant Wealth	Contingent crop planning	Aug. 22	3	20	-	20	-	-	-	20
	Crop production and management	Commercial production of vegetables.	Sept,2 2	3	20	-	20	-	-	-	20
	Entrepreneur Development	Poultry farming allied agril. Enterprise for self-empowerment	Sep. 22	3	20	-	20	-	-	-	20
	Small scale processing	Value addition of millets	Oct 22	3	20	-	20	-	-	-	20
	Mushroom cultivation	Mushroom cultivation and preparation of different recipes	Oct. 22	3	20	-	20	-	-	-	20
	Mushroom cultivation	Oyster Mushroom cultivation and preparation of different recipes	Oct.22	3	20	-	20	-	-	-	20
	Production and management technology	Hi-Tech cultivation of cut flowers.	Nov.22	1	20	-	20	-	-	-	20
	Rice Technology	Hybrid Rice technology	Nov. 22	3	20	-	20	-	-	-	20
Fisheries	Rearing breeding	Ornamental fish rearing and breeding	Nov.22	3	20	-	20	-	-	-	20
	Entrepreneur Development	Dairy farming allied agril. Enterprise for self-empowerment	Dec. 22	3	20	-	20	-	-	-	20
Fisheries	Value addition	Value added fish products	Dec.22	3	20	-	20	-	-	-	20
				49	325	15	340	0	0	0	340

i) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
Feb.,22	Representatives of NGOs	Watershed development and management	4	6	6	12	4	4	8	20
Jun.22	Departmental Staff	Improved Hybrid Rice Technology	3	20	-	20	-	-	-	20
Oct.,22	Productivity enhancement in commercial crops	Commercial cultivation of rabi vegetables.	3	15	5	20	-	-	-	20
Nov.22	Departmental Staff	Use of Plastic mulch in Groundnut	3	20	-	20	-	-	-	20
Nov. 22	Agril. Assis. / Supervisors	Exploring the dynamics and Farmers group through group approach	3	20	-	20	-	-	-	20
Dec.,22	Monitory returns from vegetables	Shadenet cultivation of horticulture crops.	3	15	5	20	-	-	-	20
Dec.,22	IPM, IDM	Integrated pest and disease management of major horticultural crops	3	20	-	20	-	-	-	20
Total			22	116	16	132	4	4	8	140

ii) Sponsoredprogrammes

Discipline	Sponsoring agency & Amount	Clientele	Title of the training programme	No. of courses	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Agronomy	ATMA	Rural Youth	Improved Rice technology	1	25	10	35	15	10	25	60
Agronomy	ATMA	Farmers, Farm womens	Improved Groundnut Technology	1	25	10	35	15	10	25	60
Agronomy	NGO	Farmer	Improved Rice technology	1	25	10	35	15	10	25	60
Agronomy	NGO	Farmers, Farm womens	Improved Groundnut technology	1	25	10	35	15	10	25	60
Agronomy	Rameti	Farmer	Improved Rice technology	1	25	10	35	15	10	25	60
Horticulture	ATMA	Farmers, Farm womens	Improved Vegetable cultivation Technology	1	25	10	35	15	10	25	60
Horticulture	ATMA	Farmers, Farm womens	Improved Mango production Technology	1	25	10	35	15	10	25	60
Fisheries	ATMA	Farmers, Farm womens	Fish Farming	1	25	10	35	15	10	25	60
Fisheries	NGO	Farmers, Farm womens	Fish Farming	1	25	10	35	15	10	25	60
Total				9	225	90	315	135	90	225	540
b) Sponsored research programme											
-	-	-	-	-	-	-	-	-	-	-	-
Total											
c) Any special programmes											
-	-	-	-	-	-	-	-	-	-	-	-
Total											

