



Mahatma Phule Krishi Vidyapeeth, Rahuri

Agricultural Research Station, Kasabe Digraj, Tah. Miraj, Dist. Sangli

1.	Year of Start	:	1958																																																				
2.	Contact Details	:																																																					
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	Email	:	arsdigraj@rediffmail.com																																																				
3.	Objectives/Mandates	:	<ul style="list-style-type: none">To develop improved varieties of soybean and groundnut.To develop need base production technologies for important crops of the region.To undertake multilocation trials of different crops.Seed production of different crops of the region.Need base research on reclamation technology for salt affected soils.Technology transfer through various extension activities.																																																				
4.	Infrastructure	:																																																					
	Land	:	30.00 ha. (24.12 ha under cultivation)																																																				
	Irrigation facilities	:	Seasonal canal irrigation (Lift irrigation from Krishna River)																																																				
5.	Human Resource	:																																																					
	Technical Staff	:	<table><tr><th>SN</th><th>Designation</th><th>Discipline</th><th>Remarks</th></tr><tr><td>1</td><td>Associate Professor</td><td>Agonomy</td><td>Filled</td></tr><tr><td>2</td><td>Associate Professor</td><td>Botany</td><td>Filled</td></tr><tr><td>3</td><td>Associate Professor</td><td>ACSS</td><td>Filled</td></tr><tr><td>4</td><td>Associate Professor</td><td>Horticulture</td><td>Vacant</td></tr><tr><td>5</td><td>Assistant Professor</td><td>Agronomy</td><td>Filled</td></tr><tr><td>6</td><td>Assistant Professor</td><td>ACSS</td><td>Filled</td></tr><tr><td>7</td><td>Assistant Professor</td><td>Botany</td><td>Filled</td></tr><tr><td>8</td><td>Assistant Professor</td><td>Entomology</td><td>Filled</td></tr><tr><td>9</td><td>Assistant Professor</td><td>Pathology</td><td>Vacant</td></tr><tr><td>10</td><td>Senior Research Assistant</td><td>AGRO BOT</td><td>Vacant</td></tr><tr><td>11</td><td>Junior Research Assistant</td><td>Bot</td><td>Vacant</td></tr><tr><td>12</td><td>Agril. Asstt.</td><td>Entomology</td><td>Vacant</td></tr></table>	SN	Designation	Discipline	Remarks	1	Associate Professor	Agonomy	Filled	2	Associate Professor	Botany	Filled	3	Associate Professor	ACSS	Filled	4	Associate Professor	Horticulture	Vacant	5	Assistant Professor	Agronomy	Filled	6	Assistant Professor	ACSS	Filled	7	Assistant Professor	Botany	Filled	8	Assistant Professor	Entomology	Filled	9	Assistant Professor	Pathology	Vacant	10	Senior Research Assistant	AGRO BOT	Vacant	11	Junior Research Assistant	Bot	Vacant	12	Agril. Asstt.	Entomology	Vacant
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		9	Mazdoor	7	5 Vacant
		10	Bullockman	1	Filled
6.	Research Achievements	: Varieties : 09 Recommendations : 18			
7.	Detailed information	:			

A) Botany I) Soybean Breeding

1) Collection, Maintenance & evaluation of germplasm lines:

A) Maintenance & evaluation of germplasm

B) Rust Screening (Field)

3) Study of Segregating material:

II) Groundnut Breeding

State Multilocation Varietals Trial.

Initial Varietals Trial – Virginia Bunch – Stage –I

Initial Varietals Trial – Virginia Bunch – Stage –II

Advanced NILs Varietal Trial (AMABC) for Foliar Disease resistance (FDR)

B) Agronomy

1. Optimization of seed rate and spacing of soybean (*Glycine max* l. merrill) on ridges and furrows under dibbled condition
2. Evaluation of planting methods and optimization of seed rate and spacing of soybean (*Glycine max* l. merrill) for yield maximization
3. Tillage and crop residue management in soybean base cropping system
4. Evaluation of different crop sequences on partially reclaimed salt affected soil

C) Soil Science

Effect of different levels of fertilizers on yield of soybean

Effect of different soil amendments on yield of sugarcane in saline-sodic soils

Studies on effect of organic manures and fertilizer sources to *pre-seasonal* sugarcane in saline sodic soils

Effect of soil and foliar application of Iron on nutrient availability, uptake, yield and quality of soybean

Preliminary screening trial of soybean for salt resistance

D) Irrigation and Drainage Engineering

Effect of deficit irrigation on yield of turmeric (*Curcuma Longa* L.)

Computation of crop coefficient values (Kc) for turmeric (*Curcuma Longa* L.)

Computation of yield response factor (Ky) for turmeric (*Curcuma Longa* L.)

Effect of semi-controlled drainage systems on yield of sugarcane under lift irrigated areas of Maharashtra

Effect of integrated use of subsurface drainage system (SSDS) and mole drainage on productivity of sugarcane under salt affected soil

E) Entomology:

Effect of seed treatment on incidence of insect pest and their natural enemies on soybean

Evaluation of Bioefficacy and phytotoxicity of BAS 306 02 I 240 SC against Spodoptera and Helicoverpa pests of soybean

Identification of defoliator resistant/non preferred soybean genotypes (New)

Evaluation of certain biopesticides for ecofriendly management of *Spodoptera litura* in soybean
(New)

Mass trapping of white grub adults using castor as an attractant

Evaluation of Chlorantraniliprole 18.5 Sc in soybean against green semilooper, stem fly, girdle beetle and tobacco leaf eating caterpillar.

Achievements Varieties Released:

Sr.No.	Crop	Variety	Year of Release	Special features
1	Soybean	Phule Kalyani	2003	Rust tolerant
2	Soybean	Phule Agrani (KDS 344)	2013	Rust tolerant
3	Soybean	Phule Sangam (KDS 726)	2016	Rust tolerant
4	Soybean	KDS 753	2017	Rust resistant
5	Betelvine	Krishna Pan	2002	High yield and more shelf life
6	Groundnut	TPG-41	2004	Bold seeded
7	Groundnut	Phule warna(KDG 128)	2013	VB, High yield
8	Groundnut	Phule morna (KDG 123)	2014	VB, High yield
9	Groundnut	KDG 160	2017	SB, High yield for summer season

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