



Mahatma Phule Krishi Vidyapeeth, Rahuri

NARP Phase-I and Phase-II Zonal Agricultural Research Station, Solapur

1.	Year of Start	: 1987																																				
2.	Contact Details	:																																				
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3.	Objectives/Mandates	: <ul style="list-style-type: none">• Evolution of dryland technology to optimize the crop production.• Mechanization of dryland agriculture.• Improvement in feeding and management practices and development of cheaper feeds for goat for milk and mutton purpose.• Economic analysis, adoption pattern, constraints in adoption of improved dryland technology.• Rationalization of research programmes and research organization.• Strengthening the capability of the State Agricultural Universities to undertake research on location specific problems in all parts of the State.																																				
4.	Infrastructure	:																																				
	Land	: 77.03 ha																																				
	Laboratories	: Soil and water testing laboratory, Microbiology/Plant Pathology laboratory																																				
	Advanced facilities	: Meteorological observatory (Auto Weather Station)																																				
	Instruments and Implements available	: Tractors, seed drills, Atomic absorption spectro-photometer, International pipette, Auto N Analyser, infiltrometers, Line quantum sensor, SPAD, neutron probe moisture meter, rainout shelter, compound research microscopes, Laminar air flow, Autoclave, Hot air oven, pressure plate apparatus, etc																																				
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>Soil Science & Agril. Chemistry</td><td>Filled</td></tr><tr><td>2</td><td>Associate Professor</td><td>Soil Microbiology (Plant Pathology)</td><td>Filled</td></tr><tr><td>3</td><td>Associate Professor</td><td>Crop Physiology</td><td>Pooled</td></tr><tr><td>4</td><td>Associate Professor</td><td>Agril. Economics</td><td>Vacant</td></tr><tr><td>5</td><td>Associate Professor</td><td>Agronomy</td><td>Vacant</td></tr><tr><td>6</td><td>Assistant Professor</td><td>Horticulture</td><td>Filled</td></tr><tr><td>7</td><td>Assistant Professor</td><td>Horticulture</td><td>Filled</td></tr><tr><td>8</td><td>Assistant Professor</td><td>Soil & Water Conservation</td><td>Vacant</td></tr></table>	SN	Designation	Discipline	Remarks	1	Associate Professor	Soil Science & Agril. Chemistry	Filled	2	Associate Professor	Soil Microbiology (Plant Pathology)	Filled	3	Associate Professor	Crop Physiology	Pooled	4	Associate Professor	Agril. Economics	Vacant	5	Associate Professor	Agronomy	Vacant	6	Assistant Professor	Horticulture	Filled	7	Assistant Professor	Horticulture	Filled	8	Assistant Professor	Soil & Water Conservation	Vacant
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		9	Assistant Professor	Agril. Entomology	Vacant
		10	Assistant Professor	Animal Science & Dairy Science	Vacant
		11	Assistant Professor	Agril. Microbiology	Vacant
6.	Research Achievements	:	40 technologies recommended Varieties Released : Ber (Phule Shabari i.e. SLB-26)		
7.	Ongoing Research	:	Crop Physiologist: <ol style="list-style-type: none"> 1. Drought Multilocation Sorghum Variety Trial (DMLT) on receding soil Moisture condition (Medium Soil) 2. Drought Multilocation Sorghum Variety Trial (DMLT) on receding soil Moisture condition (Shallow Soil) 3. Evaluation of rabi sorghum genotypes for drought tolerance and stay green under receding soil Moisture condition (Medium Soil) Associate Prof. of Soil Science <ol style="list-style-type: none"> 1. Effect of graded levels of sulphur and FYM on yield, oil content and nutrient uptake of safflower under rainfed condition 2. Response of potassium levels in combination with FYM on sunflower under rainfed agriculture 3. Soil test crop response correlation studies on dryland <i>pigeonpea</i> Associate Prof. of Agril. Economics <ol style="list-style-type: none"> 1. Trends in arrivals and prices of pomegranate in selected markets of Maharashtra Soil Microbiologist <ol style="list-style-type: none"> 1. Effect of seed biopriming on grain and stover yield of <i>rabi</i> sorghum 2. Effect of seed treatment with liquid <i>Rhizobium</i> and PSB on growth and yield of green gram under dryland conditions 3. Effect of seed treatment with liquid <i>Rhizobium</i> and PSB on growth and yield of black gram under dryland conditions 4. Effect of seed biopriming on growth and yield of chickpea under dryland conditions 5. Isolation of drought tolerant strains of biofertilizers from rhizosphere soils of scarcity zone of Maharashtra 6. Production and sale of Phule <i>Trichoderma</i> plus and decomposing culture to farmers Involvement in Soil Physicist's Research Projects (AICRPDA): <ol style="list-style-type: none"> 1. Recycling of crop residue in the soil and its subsequent effect on performance of <i>rabi</i> sorghum. 2. Tillage and residue retention for resource conservation in black gram - <i>rabi</i> sorghum sequence. Involvement in Soil Physicist's and Soil Engineer's Research Projects NARP): <ol style="list-style-type: none"> 1. Long term effect of biomethanated spent wash on yield of <i>rabi</i> sorghum under dryland conditions on entisols. 2. Effect of various organic sources on soil moisture conservation, growth and yield of chickpea under dryland condition. <u>NARP, Horticulture</u> <ol style="list-style-type: none"> 1. Evaluation of different aonla varieties under dryland conditions 2. Collection, maintenance and evaluation of local ber types for yield, quality, pest and disease incidence 		

3. Collection, maintenance and evaluation of local custard apple types under dryland condition for yield, quality, pest and disease incidence.
4. Collection, maintenance and evaluation of local tamarind types for yield, quality, pest and disease incidence.
5. Evaluation of local types and improved cultivars of drumstick for growth and yield on shallow soils under dryland conditions
6. Evaluation of existing drumstick plantation
7. Development of pruning technology for drumstick under dryland conditions.
8. Studies on suitable planting distance for drumstick (*Moringa oleifera* Lank.) under dryland conditions
9. Integrated nutrient management in drumstick (*Moringa oleifera* Lank.) under dryland conditions.
10. Screening and evaluation of Safflower germplasm for quality leafy vegetable.
11. Evaluation of wood apple [*Feronia limonia* Linn. (Swingle)] genotypes under dry land conditions
12. Evaluation of curry leaf (*Murraya koenigii* L.) genotypes under dry land conditions
13. **Ad hoc project-** Evaluation of China aster (*Callistephus chinensis* (L) Nees.) varieties for yield and quality using biofertilizers

Asstt. Professor of Soil and Water Conservation Engineering

1. Effect of vertical mulch on moisture conservation and productivity of *rabi* sorghum under rainfed condition.
2. Effect of vertical mulch on moisture conservation and productivity of custard apple under rainfed condition.
3. Water budgeting of farm pond and use of harvested water for protective irrigation to curry leaf under dryland conditions.