



## Mahatma Phule Krishi Vidyapeeth, Rahuri

### All India Coordinated Sorghum Improvement Project, MPKV, Rahuri

1.	Year of Start	:	1 April 1973																								
2.	Contact Details	:																									
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	Fax No.	:	02426-243253																								
	Email	:	Rahuri@sorghum.res.in, sorghum.mpkv-mh@gov.in																								
3.	Objectives/Mandates	:	<ul style="list-style-type: none"><li>• Development of <b>rabi</b> sorghum varieties and hybrids coupled with biotic and abiotic stresses with high yield performance under shallow, medium, deep soil with irrigation and stress situations.</li><li>• 2) Development of sweet sorghum varieties and hybrids in kharif season for higher juice yield and sugar content for ultimate aim of ethanol production</li></ul>																								
4.	Infrastructure	:																									
	Land	:	26.92 ha.																								
	Irrigation facilities	:	2-bore wells , one farm pond, one well and seasonal canal irrigation																								
5.	Human Resource	:																									
	Technical Staff	:	<table><tr><th>SN</th><th>Designation</th><th>Discipline</th><th>Remarks</th></tr><tr><td colspan="4">A) AICRP, Plan scheme:</td></tr><tr><td>1</td><td>Senior Sorghum Breeder (Professor)</td><td>Agril. Botany</td><td>Filled</td></tr><tr><td>2</td><td>Associate Professor</td><td>Agronomy</td><td>Filled</td></tr><tr><td>3</td><td>Associate Professor</td><td>Entomology</td><td>Filled</td></tr><tr><td>4</td><td>Associate Professor</td><td>Food Science</td><td>Vacant</td></tr></table>	SN	Designation	Discipline	Remarks	A) AICRP, Plan scheme:				1	Senior Sorghum Breeder (Professor)	Agril. Botany	Filled	2	Associate Professor	Agronomy	Filled	3	Associate Professor	Entomology	Filled	4	Associate Professor	Food Science	Vacant
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	Non-Technical Staff	:	<table><tr><th>SN</th><th>Designation</th><th>No of posts</th><th>Remarks</th></tr><tr><td colspan="4">A) AICRP, Plan scheme:</td></tr><tr><td>1</td><td>Agriculture Assistant</td><td>4</td><td>Filled - 2 Vacant - 2</td></tr></table>	SN	Designation	No of posts	Remarks	A) AICRP, Plan scheme:				1	Agriculture Assistant	4	Filled - 2 Vacant - 2												
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6.	Research Achievements	:																									
	Varieties & hybrids	:	20 varieties and 3 hybrids																								
	Recommendations	:	9																								
7.	Ongoing Research	:	<p>a) Plant breeding:</p> <ul style="list-style-type: none"><li>○ Development of high grain &amp; fodder yielding rabi sorghum varieties and hybrids coupled with drought and shoot fly tolerance.</li><li>○ Development of varieties suitable for Mechanical Harvesting</li><li>○ Development of sweet sorghum varieties and hybrid for high cane yield coupled with good quality parameters and tolerance to biotic stresses.</li></ul>																								

**b) Sorghum Agronomy:**

- Fertilizer X Genotype interaction in a rain fed receding soil moisture environment in *rabi* sorghum.
- Agronomic bio-fortification in *rabi* grain sorghum.
- Effect of mixed cropping of *rabi* sorghum and chickpea on yield of sorghum.

**c) Sorghum Entomology:**

- Evaluation of sweet sorghum genotypes against shoot fly and stem borer.2. Evaluation of *rabi* sorghum genotypes against shoot fly and stem borer.

**d) Food Science and Technology:**

- Basic studies/Objective (*Roti* making, nutritional quality and palatability of *roti*).
- Studies on quality parameters of promising *rabi* sorghum genotypes.
- Studies on quality parameters of promising *rabi* sorghum genotypes for alternative uses.