

Mahatma Phule Krishi Vidyapeeth, Rahuri

148, NARP, Agricultural Research Station, Vadgaon Maval

1.	Year of Start	:	1940				
2.	Contact Details	:					
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3.	Objectives/Mandates	:	To evolve improved, ingli pretaing free strains surantie for the track				
			having resistance to pests and diseases.				
			• To conduct the agronomy trials for recommending the package of				
			practices for high yielding varieties. To produce breader foundation and truthful good of the improved rice				
			• To produce breeder, foundation and truthful seed of the improved rice varieties to meet the demand of Government agencies, taluka seed				
		farms and farmers.					
		 To give new developed agro technologies to the farmers to boosts the 					
			yield of rice.				
				nsion activities of research	h to concerned agenci	es/farmers etc	
4.	Infrastructure	:					
	Land		18.22 ha	1.			
	Irrigation facilities	:	Well - 2	, Farmpond - 1			
5.	Human Resource	:					
	Technical Staff	:	SN	Designation	Discipline	Remarks	
			1	Officer In-charge	Agronomy	Filled	
			2	Assistant Professor of	sor of Agronomy	Vacant	
				Agronomy	rigionomy	vacunt	
			3.	Assistant Professor of	Botany	Filled	
				Botany			
			4.	Junior Research	Botany	Filled	
	Non-Technical Staff		CN	Assistant		Develo	
	Non-Technical Staff	:	SN	Designation	No of posts	Remarks Filled - 2	
			1.	Agril Asstt	3	Vacant - 1	
			2.	Sr. Clerk	1	Filled - 1	
					-	Filled - 1	
			3.	Counter	2	Pooled - 1	
			4.	Peon	1	Vacant -1	
			5.	Watchman	1	Vacant -1	
					11	Filled - 5	
			6.	Mazdoor	11	Vacant - 6	

6.	Research	:	
	Achievements		
	Varieties	:	05
	Recommendations	:	22
7.	Ongoing Research	:	1.

Ongoing Research (only list of ongoing research experiments) **I. Rice Breeding**

1) Short Term Programme

- A) AICRP Trials-Kharif 2017 2
- B) Maharashtra State Trials- Kharif 2017 10
- C) Station Variety Trials- *Kharif* 2017 5
- D) Product Testing Trials -Kharif 2017 (64 Entries including checks) -

2) Long Term Programme

- A) Collection, maintenance and evaluation of germplasm lines 207 Genotypes
- **B)** Varietal Development Programme Development of high yielding, early, long /Medium/Small slender and scented variety of paddy with diseases & pest resistance.
- C) Generation of Breeding Material F₁ 25, F₂ 6, F₃ 12, F₄ 12, F₅ 18, F₆ 8 and F₇ 12
- **D) CMS line Development Programme -** Development of long slender, CMS lines with resistance to pest and diseases.
- E) Restorer line Development Programme Development of long slender, scented restorer lines with resistance to pest and diseases.
- F) Maintenance of Male Sterile lines IR-58025 A / B
- **G)** Mutation Breeding Development of early, dwarf, scented strains of Indrayani variety and development of dwarf, non-lodging, scented and high yielded stains of Ambemohar-157 variety.
- **H) Population Development programme -** A cross between blast susceptible paddy variety Indrayani and a resistant line KJT-2 is effected to study the genetics of blast resistance in rice.

II. Rice Agronomy

- 1) State Programme
 - a) Climate change -Studies on the effect of transplanting time of different paddy varieties in relation to climate change
 - **b) Integrated nutrient management-** Effect of foliar application of nutrients on growth yield and quality of paddy.
 - c) Organic farming To study the effect of substitution of various on-farm organic resources in paddy.
 - d) Weed management Weed management in nursery, drilled and transplanted paddy.
 - e) **Production technology-** To compare the performance different varieties of paddy under different levels of fertilizers during summer season.
 - **f)** Cropping sequence- Diversification of rice based cropping system with high value crops under receding soil moisture in paddy field harvesting after November.

- **g) Direct seeded rice -** Performance of different direct seeded rice methods in sub mountane zone.
- **h)** Mechanization Performance of tractor operated seed drill in nursery of transplanted rice and DSR.

2) AICRP Programme

a) Integrated weed management

- i. Long term evaluation of different weed management practices for enhancement of the productivity in different DSR methods.
- ii. Evaluation of cultivars for weed competitiveness under puddled direct wet seeded rice.
- iii. Evaluation of cultivars for weed competitiveness under aerobic rice.

b) Rice based cropping system

- i. Conservation agriculture / system based management practices in rice and rice based cropping system.
- ii. Analysis of long term meteorology data (temp and rainfall) for identifying the reasons for yield reduction.