



## Mahatma Phule Krishi Vidyapeeth, Rahuri

### All India Coordinated Research Project on Groundnut

1.	<b>Year of Start</b>	:	1967																
2.	<b>Contact Details</b>	:																	
	<b>Postal Address</b>	:	Principal Scientist, Oilseeds Research Station, Nimkhedi Road, Jalgaon - 425001																
	<b>Phone No.</b>	:	0257 2250888																
	<b>Fax No.</b>	:	0257 2250888																
	<b>Email</b>	:	orsjalgaon@gmail.com																
3.	<b>Objectives/Mandates</b>	:	<ul style="list-style-type: none"> <li>• Development of early maturity, heigh yielding, varieties with high oil content</li> <li>• Development of early and bold seeded genotypes</li> <li>• Registance to major disease LLS &amp; pest Spodoptera</li> </ul>																
4.	<b>Infrastructure</b>	:																	
	<b>Land</b>	:	10.00 ha																
	<b>Irrigation facilities</b>	:	Borewell 2																
	<b>Laboratories</b>	:	2																
5.	<b>Human Resource</b>	:																	
	<b>Technical Staff</b>	:	<table border="1"> <thead> <tr> <th>SN</th><th>Designation</th><th>Discipline</th><th>Remarks</th></tr> </thead> <tbody> <tr> <td>1</td><td>Groundnut Breeder</td><td>Botany</td><td>Filled</td></tr> <tr> <td>2</td><td>Groundnut Agronomist</td><td>Agronomy</td><td>Filled</td></tr> <tr> <td>3</td><td>Groundnut Pathologist</td><td>Plant Pathology</td><td>Filled</td></tr> </tbody> </table>	SN	Designation	Discipline	Remarks	1	Groundnut Breeder	Botany	Filled	2	Groundnut Agronomist	Agronomy	Filled	3	Groundnut Pathologist	Plant Pathology	Filled
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6.	<b>Research Achievements</b>	:																	
	<b>Varieties</b>	:	14																
	<b>Recommendations</b>	:	20																
7.	<b>Ongoing Research</b>	:																	

**Discipline : Plant Pathology**

Sr.No	Name of Experiment
<b>Kharif Experiments</b>	
1	Monitoring of major diseases of groundnut
2	Influence of climate variability on the occurrence of foliar diseases (ELS, LLS and Rust)
3	Screening of IVT- I & II, AVT and other coordinated trial material for resistance/ tolerance to major diseases
4	Validation of management modules for soil borne diseases
5	Validation of storage bags against peanut storage pests and aflatoxin contamination

6	Evaluation of different IPM modules for management of major insect-pest and diseases in groundnut
<b>Rabi-Summer Experiments</b>	
1	Monitoring of major diseases of groundnut
2	Screening of IVT- I & II, AVT and other coordinated trial material for resistance/ tolerance to major diseases

### Discipline : Plant Breeding

Sr.No	Name of Experiment
<b>Kharif Experiments</b>	
1	Maintainance and Evaluation of Germplasm
2	Initial Varietal Trial - I
3	Initial Varietal Trial - II
4	Initial Varietal Trial - I (Early maturity)
5	Priliminary Yield Trial -I
6	Priliminary Yield Trial -II
7	Small Scale Trial- I
8	Small Scale Trial- II
9	Large Scale Trial
10	State Multilocation Varietal trial
11	Hybridization Programme
12	Breeding Material (F <sub>1</sub> to F <sub>5</sub> )
<b>Rabi-Summer Experiments</b>	
1	Initial Varietal Trial - I
2	Initial Varietal Trial - II
3	University Multilocation Varietal trial

**Decipline : Agronomy**

<b>Sr.No</b>	<b>Name of Experiment</b>
<b><i>Kharif</i> Experiments</b>	
1	Identification of remunerative groundnut based cropping system under rain fed situation
2	Application of bio-formulations in <i>Kharif</i> groundnut production
3	Integrated Water Management in Rainfed Groundnut
4	Identifying suitable crop geometries for mechanical interculturing in Spanish bunch type groundnut.
5	Optimization of seed rate for groundnut cultivars having differential seed sizes during <i>kharif</i> season (redesigned).
6	Developing Conservation Agriculture practices in groundnut-wheat cropping system.
7	Evaluation of pre and post-emergence herbicides against complex weed flora in <i>kharif</i> groundnut
<b>B.</b>	<b>University Trials</b>
8.	Evaluation of zero budget natural farming in groundnut
9.	Evaluation of Bioefficacy and phytotoxicity of Paclobutrazol 40 % SC (Plant Growth Regulator) on plant growth and yield in Groundnut and its effect on succeeding crop
<b><i>Summer</i> Experiments</b>	
1	Application of bio-formulations in summer groundnut production
2	Effect of foliar application of water soluble fertilizer (WSF) on growth and yield of groundnut
3	Response of coated fertilizer grade (Smartech 12-32-16) to groundnut crop.
4	Effect of nitro-phosphate (24:24:00) briquettes on yield of groundnut, nutrient release characteristics, nutrient uptake and use efficiency.