



Mahatma Phule Krishi Vidyapeeth, Rahuri

Agricultural Research Station, Niphad State Non Plan Scheme No.188

1.	Year of Start	: 1932
2.	Contact Details	:
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3.	Objectives/Mandates	: <p>Crop Improvement</p> <ul style="list-style-type: none"> i) Organize, coordinate and monitor multi-locational and multidisciplinary research for developing superior wheat varieties having better quality and tolerance to biotic and abiotic stresses for Rainfed, Restricted Irrigation, Timely sown Irrigated conditions and bread wheat varieties for late sown irrigated condition. ii) Collect, evaluate, catalogue, maintain and use working germplasm collections of wheat with an aim to identify suitable donors for yield components, biotic and abiotic stresses and quality traits. iii) Undertake strategic research for a major advance in genetic yield potential, quality, and durable disease resistance through the utilization of genetic resources and genetic enhancement. iv) Mobilize genetic diversity from National and International sources for developing new genetic stocks. v) Coordinate and organize nucleus and breeder seed production. <p>Crop Production</p> <ul style="list-style-type: none"> i) To develop new fertilizer doses for irrigated and rainfed wheat crop. ii) To study the different cultivation practices for wheat and wheat based cropping systems. iii) To study the organic farming and INM practices in wheat. iv) To study constraints between farmers and scientist regarding wheat cultivation and to conduct FLD'S of new varieties on farmers' fields. v) To disseminate improved technology of wheat among farmers. <p>Crop Protection</p> <ul style="list-style-type: none"> i) To screen different genotypes against different diseases and pests under co-ordinated and state programme. ii) To undertake studies on effects of environmental factors on incidence of diseases and pests on wheat varieties.

4.	Infrastructure : Land : 19.99 ha Laboratories : Soil Science Laboratory & Plant Pathology Laboratory Advanced facilities : Meteorological observatory (Auto Weather Station) Plant diseases diagnosis laboratory, Seed processing unit, farm mechanization equipments																																																																																				
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>Agril Botany 01</td><td>Vacant</td></tr><tr><td>2</td><td>Senior Res Assistant</td><td>Agril Botany 06</td><td>03 Filled, 03 Vacant</td></tr><tr><td>3</td><td>Senior Res Assistant</td><td>Agronomy 01</td><td>Filled</td></tr><tr><td>4</td><td>Senior Res Assistant</td><td>Plant Pathology 02</td><td>Filled</td></tr><tr><td>5</td><td>Senior Res Assistant</td><td>Soil Science 01</td><td>Vacant</td></tr><tr><td>6</td><td>Senior Res Assistant</td><td>Agril. Extension</td><td>Vacant</td></tr></table> Non-Technical Staff : <table><tr><th>SN</th><th>Designation</th><th>No. of Posts</th><th>Remarks</th></tr><tr><td>1</td><td>Office Supdt.</td><td>01</td><td>Filled</td></tr><tr><td>2</td><td>Agril Assistant</td><td>10</td><td>Filled</td></tr><tr><td>3</td><td>Senior Clerk</td><td>02</td><td>Filled</td></tr><tr><td>4</td><td>Clerk cum typist</td><td>04</td><td>Filled</td></tr><tr><td>5</td><td>Oil Eng Driver</td><td>01</td><td>Vacant</td></tr><tr><td>6</td><td>Counter</td><td>01</td><td>Vacant</td></tr><tr><td>7</td><td>Mukadam</td><td>01</td><td>Filled</td></tr><tr><td>8</td><td>Lab boy /Att.</td><td>05</td><td>02 filled, 03 vacant</td></tr><tr><td>9</td><td>Peon</td><td>03</td><td>02 filled, 01 vacant</td></tr><tr><td>10</td><td>Watchman</td><td>04</td><td>01 filled, 03 vacant</td></tr><tr><td>11</td><td>Labour</td><td>28</td><td>13 filled, 15 vacant</td></tr><tr><td>12</td><td>Bullock man</td><td>01</td><td>Vacant</td></tr><tr><td>13</td><td>Sweeper</td><td>02</td><td>Filled</td></tr></table>	SN	Designation	Discipline	Remarks	1	Associate Professor	Agril Botany 01	Vacant	2	Senior Res Assistant	Agril Botany 06	03 Filled, 03 Vacant	3	Senior Res Assistant	Agronomy 01	Filled	4	Senior Res Assistant	Plant Pathology 02	Filled	5	Senior Res Assistant	Soil Science 01	Vacant	6	Senior Res Assistant	Agril. Extension	Vacant	SN	Designation	No. of Posts	Remarks	1	Office Supdt.	01	Filled	2	Agril Assistant	10	Filled	3	Senior Clerk	02	Filled	4	Clerk cum typist	04	Filled	5	Oil Eng Driver	01	Vacant	6	Counter	01	Vacant	7	Mukadam	01	Filled	8	Lab boy /Att.	05	02 filled, 03 vacant	9	Peon	03	02 filled, 01 vacant	10	Watchman	04	01 filled, 03 vacant	11	Labour	28	13 filled, 15 vacant	12	Bullock man	01	Vacant	13	Sweeper	02	Filled
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6.	Research Achievements : Varieties : 18 Recommendations : 10																																																																																				
7.	Ongoing Research : A) Wheat Breeding i) State Multilocation Trials (TS & LS) ii) University Multilocation Trials (RI, TS & LS) iii) Station trials viz. RRT, PRT (RI, TS & LS) iv) Screening of wheat genotypes for high temperature tolerance B) Agronomy i) Effect of weed control treatments on weeds and yield of wheat and its effect on succeeding soybean crop ii) Effect of planting geometry and seeds per hill on production potential and economics of wheat under irrigated conditions iii) Organic farming in wheat C) Soil Science & Agril Chemistry i) Assessing Effect of Micronutrient Foliar Sprays on Wheat ii) Management of lodging in wheat by Plant Growth Regulators iii) Compensation of major nutrients through foliar nutrition in wheat under limited irrigation iv) Response of NPK foliar sprays on wheat under water stress condition																																																																																				

- v) Standardization of fertilizer dose for newly released wheat variety
- vi) Effect of zinc application on yield and quality of wheat
- vii) Enhancing iron content in bread wheat (*Triticum aestivum*)

D) Plant Pathology

- i) Determination of resistance in wheat genotypes developed at ARS, Niphad promoted in co-ordinated trials against leaf blight disease under artificial epiphytotic conditions.
- ii) Determination of resistance in wheat genotypes developed at ARS, Niphad and promoted in co-ordinated trials against foot rot disease under artificial epiphytotic conditions.
- iii) Monitoring occurrence of major diseases of wheat at different sowing dates
- iv) Evaluation of fungicides for management of leaf rust disease in wheat (filar trial)
- v) Evaluation of fungicides for management of leaf blight disease in wheat (filar trial)
- vi) Studies on formulation of consortia of *Azotobacter*, PSB and potash mobilizing bacteria in wheat crop. (BNF Scheme, Pune).

E) Entomology

- i) Screening of early generation breeding materials (MLT, PRT and RRT)
- ii) Screening of SMVT- TS and LS trials of wheat pests
- iii) Development of IPM module for management of insect-pests on wheat.
- iv) Development of weather based forewarning module against the outbreak of important pests of wheat.
- v) Survey of pest infesting wheat and their natural enemies.
- vi) Screening of various wheat entries for foliar wheat aphids, root aphid and shoot fly