



**DIRECTORATE OF RESEARCH**  
**MAHATMA PHULE KRISHI VIDYAPEETH**  
**RAHURI-413 722 DISTRICT : AHMEDNAGAR (M.S.)**

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**TESTING FACILITIES**

The Mahatma Phule Krishi Vidyapeeth, Rahuri has 27 research stations and sevens colleges spread over ten districts of Western Maharashtra. Depending upon nature of product and tests to be carried out the testing facilities are made available at these locations. However, some of the selected locations are indicated below.

Sr. No.	Type of Test	Conducting Location
1	Pesticides:- Bioefficacy, Phytotoxicity, Compatibility and Natural enemies	Department of Entomology, Plant Pathology & Agril Microbiology, MPKV, Rahuri, CSRS, Padegaon, Ganeshkhind, Pune, College of Agril., Pune
2	Pesticide Residue	Residue Analyst, Department of Entomology, MPKV, Rahuri.
3	Soil, Water & Plant analysis	Department of Soil Science & Agril. Chemistry, MPKV, Rahuri.
4	Performance of plant growth hormones & Chemicals	Department of Horticulture, Agronomy, MPKV, Rahuri / ARS, Pimpalgaon Basawant, Ganeshkhind, Pune/ CSRS, Padegaon.
5	Herbicide: Bioefficacy, Phytotoxicity etc.	Department of Horticulture, Agronomy, MPKV, Rahuri, Ganeshkhind, Pune/ CSRS, Padegaon.
6	Farm equipments	Department of Farm Machinery & Power, MPKV, Rahuri / FIM Project, MPKV, Rahuri.
7	Irrigation equipment	Interfaculty Department of Irrigation Water Management / Department of Irrigation & Drainage Engineering, MPKV, Rahuri.
8	Animal Feeds and Medicine	Department of Animal Science & Dairy Science, MPKV, Rahuri.
9	Food analysis	Department of Food Science & Technology / Biochemistry, MPKV, Rahuri
10	Tissue Cultured seedlings etc.	Biotechnology Centre, MPKV, Rahuri.
11	Biopesticide and Biofertilizer	Department of Entomology, Plant Pathology & Agril Microbiology, MPKV, Rahuri.
12	Post harvest studies	Department of Horticulture, Entomology, MPKV, Rahuri, Ganeshkhind, Pune.
13	Improved varieties/ Hybrids	Crop Breeders / Specialists at different Research Stations / Department of Agril. Botany, MPKV, Rahuri
14	Processing Equipments	Department of Agril. Processing Engineering, MPKV, Rahuri.

**Product Testing Charges**  
**(Univ. Reso. No. MTG-2(129)/87/of2013, dated16/7/2013)**

(In Rupees)

Sr. No.	Particulars	Testing Charges
1.	<b>Testing of liquid fertilizers, fertilizers, growth hormones, micronutrients, pesticides for bioefficacy, (per crop, per season, per product, per pest /disease), (In field/ pot culture)</b>	
	a) Cereals, pulses and oilseeds	<b>60,000</b>
	b) All vegetables	<b>75,000</b>
	c) Cotton, Turmeric and Ginger	<b>75,000</b>
	d) Sugarcane	
	i) Suru	<b>90,000</b>
	ii) Pre-seasonal	<b>1,00,000</b>
	iii) Adsali	<b>1,25,000</b>
	e) Banana, grapes, pomegranate, Strawberry and other fruits/ Floriculture (Open field)	<b>90,000</b>
	f) Protected cultivation of vegetables & flowers	<b>1,50,000</b>
	g) Additional information about effect of pesticides for each study : Natural Enemies (predators, parasite) phytotoxicity and Compatibility	<b>20,000</b>
	h) Weedicides / Herbicides testing in cropped area	<b>60,000</b>
	i) Weedicides / Herbicides testing in non cropped area	<b>50,000</b>
	j) Testing of seeds per sample for a) Physical purity/ Germination percentage test b) Genetic purity c) DNA finger printing d) Charges for issuing certificate of Bio-technology Laboratory (Only for Western Maharashtra)	<b>200</b> <b>500</b> <b>20,000</b> <b>50,000</b>
	k) Testing of grapes fruit bud differentiation of farmers sample-(per sample)	<b>200</b>
	l) Charges for testing the product against more than one pest/disease in the same experiment	<b>25% for every additional pest / disease</b>
	m) Charges for follow up trial	<b>Full charges as per crop</b>
	n) In addition to above, additional charges for soil and plant analysis result of each study	<b>10,000</b>
	o) Testing of biofertilizer, bioagents & biopesticides (as per decision of the CSCP meeting held on 7/12/01)	<b>Full charges as per crop</b>
	p) Only Separate trial for studies on phytotoxicity, compatibility and natural enemies	<b>20,000</b>
2.	Azadirachtin content (Neem based) for Lab. analysis	<b>10,000</b>
3.	a) Spore count and <i>cfu</i> at $10^{-6}$ , $10^{-7}$ & $10^{-8}$ dilution, pH, Moisture content and other contaminant in Biofertilizer / Biopesticide	<b>3,000</b>
	b) Biofertilizer/ Bioagent	<b>As per Govt.</b>
4.	Analytical test report of biofertilizers/ biopesticides	<b>5,000</b>

Sr. No.	Particulars	Testing Charges
5.	<b>Harvest time residues in consumable products per product / crop/ season</b> (Fruit / Vegetable / Cereals / Pulses/ Milk / Meat) a) Company sample b) Farmers sample	<b>1,00,000</b> <b>15,000</b>
6.	Dissipation studies on one crop or soil for season	<b>1,50,000</b>
7.	Analysis of self life study of processed product	<b>As per crop</b>
8.	<b>Testing of varieties / hybrids per entry/ location / season</b>	
	<b>For yield</b> a) Short duration (One season crop) b) Long duration (more than one season-Cotton, Sugarcane, Banana) c) For reaction to diseases and pests (under protected condition) d) Fees for conducting trials on transgenic crop	<b>50,000</b> <b>75,000</b> <b>25,000</b> <b>1,50,000</b>
9.	Mineralization / transformation / release pattern of manures, fertilizers, micronutrients formulations in lab.	<b>50,000</b>
10.	<b>Irrigation Systems / Equipments</b>	
	a) Testing of drip /Sprinkler set without crop	<b>Set to be retained + 50,000</b>
	b) Testing of Raingun without crop	<b>Set to be retained + 50,000</b>
	c) Testing of subsurface irrigation system without crop only Hydraulics	<b>Set to be retained + Rs.50,000/-</b>
	d) Testing of drip / sprinkler set with crop	<b>Set to be retained + 50,000+ crop charges</b>
	e) Testing of Raingun with crop	<b>Set to be retained + 50,000+ crop charges</b>
	f) Testing of subsurface irrigation system	<b>Set to be retained + installation charges + crop charges</b>
11.	Liquid / solid soluble fertilizers	<b>Drip set to be retained + Rs.50,000+ product testing charges as per crop or Rs. 75,000 + product testing charges as per crop</b>
12	1. Roughness coefficient for pipes	<b>a) PVC pipes Rs.25,000</b> <b>b) GI/CI pipes Rs.30,000</b>
	<b>2. Pumping Systems</b> a) Treadle pumps reciprocating /Bullock Drawn b) Centrifugal Pumps Monoblock / Submersible	<b>Set to be retained + 25,000</b> <b>Set to be retained + 25,000</b>

**Note:** 1) The fees for crop trials are for area not more than 10 R.  
2) Additional fees will be charged on the basis of area, number of treatments and replications.

Sr. No.	Particulars	Testing Charges
13.	<b>Analysis of sample for various parameter (per sample)</b>	
<b>I</b>	<b>Soil</b>	
	1. pH	25
	2. EC	25
	3. Available N	100
	4. Available P	100
	5. Available K	100
	6. Calcium carbonate	50
	7. Organic carbon	60
	8. Exchangeable Ca, Mg, Na and K	50 each
	9. CEC	200
	10. Analysis of soluble salts (Ca, Mg, Na, K, CO <sub>3</sub> , HCO <sub>3</sub> , CL, SO <sub>4</sub> )	60 each
	11. Analysis of soluble salts ( <b>All eight</b> )	--
	12. Lime requirement	100
	13. Gypsum requirement	100
	14. Micronutrients (Fe, Cu, Zn, Mn, B, Mo)	100 each
	15. Mechanical analysis	150
	16. Bulk density	75
	17. Hydraulic conductivity	150
	18. Water holding capacity	150
<b>II</b>	<b>Irrigation Water</b>	
	1. Analysis of dissolved salts (Na, K, Ca, Mg, CO <sub>3</sub> , Cl, HCO <sub>3</sub> , & SO <sub>4</sub> )	60 each
	2. pH	25
	3. EC	25
<b>III</b>	<b>Plant and plant parts / fodder and feeds</b>	
	1. Total Nitrogen	100
	2. Total Phosphorus	100
	3. Total Potassium	100
	4. Ca, Mg, Na and K	100 each
	5. Micronutrients (Fe, Mn, Zn, Cu)	100 each
	6. Ether extract	200

<b>Sr. No.</b>	<b>Particulars</b>	<b>Testing Charges</b>
	7. Acid insoluble matter	<b>100</b>
	8. Moisture	<b>100</b>
	9. Water insoluble matter	<b>100</b>
	10. Ash	<b>150</b>
	11. Acidity	<b>100</b>
<b>IV</b>	<b>Sewage</b>	
	1. Total solids	<b>150</b>
	2. Nitrogen	<b>150</b>
	3. Phosphorus	<b>150</b>
	4. Potassium	<b>150</b>
	5. pH	<b>25</b>
	6. EC	<b>25</b>
	7. BOD	<b>200</b>
	8. COD	<b>200</b>
	9. Dissolved oxygen	<b>100</b>
	10. Micronutrients and heavy metals	<b>150 each</b>
<b>V</b>	<b>Manures and fertilizers</b>	
	1. Total N	<b>200</b>
	2. Total P	<b>400</b>
	3. Ammonical N	<b>100</b>
	4. Nitrate N	<b>100</b>
	5. Water soluble P	<b>400</b>
	6. Citrate soluble P	<b>400</b>
	7. Water soluble K	<b>150</b>
	8. Total potash	<b>200</b>
	9. Acidity in ammonium sulphate	<b>100</b>
	10. Free acidity in super phosphate	<b>100</b>
	11. Acid soluble (CaO, MgO, NaO, K <sub>2</sub> O)	<b>100 each</b>
	12. Ash	<b>200</b>
	13. Moisture	<b>200</b>
	14. Organic carbon	<b>300</b>
	15. Humic acid	<b>400</b>
	16. Fulvic acid	<b>400</b>
	17. pH	<b>100</b>
	18. EC	<b>100</b>

Sr. No.	Particulars	Testing Charges
<b>VI</b>	<b>Analysis of food</b>	
	1. Determination of oil quality, physical / chemical parameters	<b>500</b>
	2. Determination of ascorbic acid in fruits / vegetables	<b>250</b>
	3. Determination of polyphenols and tannins	<b>250</b>
	4. Determination of $\beta$ -carotene	<b>250</b>
	5. Determination of amino acids methionine & tryptophan	<b>250</b>
	6. Determination of plant pigments (Chlorophyll a + b)	<b>250</b>
	7. Determination of total amino acids or protein	<b>250</b>
	8. SDS-PAGE pattern of soluble proteins on slab gels or rod gels (Minimum 10 samples)	<b>1000</b>
	9. Determination of proline	<b>250</b>
	10. Determination of reducing sugars	<b>250</b>
	11. Determination of non-reducing sugars	<b>250</b>
	12. Determination of crude proteins	<b>250</b>
	13. Crude fiber	<b>250</b>
	14. Determination of amylose content	<b>250</b>
	15. Determination of capsaicin content	<b>250</b>
	16. Determination of curcumin content	<b>250</b>
	17. Determination of IVPD/IVSD	<b>250</b>
	18. Determination of Lysine content	<b>250</b>
	19. Determination of total P & phytate phosphorus	<b>250</b>
	20. Determination of trypsin inhibitor activity	<b>500</b>
	21. Evaluation of protein fractions	<b>500</b>
	22. Estimation of gossypol content	<b>500</b>
	<b>23. Determination of enzyme activity (Minimum ten samples)</b>	
	a) Peroxidase (POD)	<b>250/-sample</b>
	b) Polyphenol oxidase (PPO)	<b>250/-sample</b>
	c) Alfa-amylase	<b>250/-sample</b>
	d) Nitrate reductase	<b>250/-sample</b>
	e) PAL	<b>250/-sample</b>
	f) Chitinase/ glucanase	<b>250/-sample</b>
	g). Crude oil content	<b>250/-</b>
	h) Superoxide dismutase	<b>250/-sample</b>
	i) Ascorbate peroxidase	<b>250/-sample</b>
	j) glutathione peroxidase	<b>250/-sample</b>
	24. Analysis of oleo-raisins	<b>10,000</b>

Sr. No.	Particulars	Testing Charges
	25. Analysis of processed fruits & Vegetable Products, other food products depending upon the analysis (per parameter)	750
	26. Practical demonstration of single processed product of fruits or vegetables or bakery products	750
	27. Analysis of Carbohydrates- Sugar, cellulose, hemi cellulose, lignin, ADF, NDF etc.(Minimum ten samples or part thereof)	7500
<b>VII</b>	<b>Field testing of farm machinery and equipments (Tractor drawn)</b>	
	1. Mould board plough	30,000
	2. Disc harrow	30,000
	3. Puddler	30,000
	4. Seed-cum-fertilizer drill/ planter (field)	30,000
	5. Field performance evaluation of power tiller	30,000
	6. Levelling (Keni) / Scoop	30,000
	7. Weeder	30,000
	8. Bund former	30,000
	9. Ridger	30,000
	10. Transplanter	30,000
	11. Rotavator	30,000
	12. Cotton stalk puller	15,000
	13. Thresher	30,000
	14.Tractor trailer (Four wheel)	30,000
	15.Chaff cutter	30,000
	16.Blade leveler	30,000
	17.Cultivator	30,000
	18.Sprayer (Tractor Drawn)	30,000
	19.Srayer (Power Tiller Drawn)	30,000
	20.Sprayer (Battery/ Motor operated)	20,000
	21.Tractor	75,000
	22.Self propelled machines	30,000
	23.Testing of solar operated light trap	5,000/ season
	24.Testing of electrically operated light trap	5,000/ season
	25.Agricultural trailor (Two wheel)	30,000
	26. Any other implements/ tools	30,000
<b>VIII</b>	<b>Hand tools/ Manually opereted</b>	
	1. Sickles / Khurphee etc.	5,000
	2. Seed, Cum-Fertilizer drill / planter	10,000
	3. Weeder	10,000
	4.Thresher	10,000

<b>Sr. No.</b>	<b>Particulars</b>	<b>Testing Charges</b>
	5.Chaff cutter	<b>10,000</b>
	6.Cycle Hoe	<b>10,000</b>
	7.Coconut Dehusker	<b>10,000</b>
	8. Sprayer pump	<b>10,000</b>
	9. Tiller Cutter (except prime mover)	<b>35,000</b>
	10. Any other implement / tools	<b>10,000</b>
<b>IX</b>	<b>Bullock Drawn Implements</b>	
	1.Mould Board plough	<b>15,000</b>
	2.Disc harrow	<b>15,000</b>
	3.Puddler	<b>15,000</b>
	4.Seed cum Fertilizer drill/planter	<b>15,000</b>
	5.Leveling (Keni) / Scoop	<b>15,000</b>
	6.Weeder	<b>15,000</b>
	7.Cultivater	<b>15,000</b>
	8.Bund former	<b>15,000</b>
	9.Ridger	<b>15,000</b>
	10.Transplanter	<b>15,000</b>
	11.Sprayer	<b>15,000</b>
	12.Bullock cart	<b>15,000</b>
	13. Steel wheel or rubber wheel bullockcart	<b>15,000</b>
	14. Sugarcane earthing up equipment	<b>20,000</b>
	15.Multipurpose tool bar	<b>25,000</b>
	16. Any other implement / tools	<b>15,000</b>
<b>X</b>	<b>Performance testing of processing equipments</b>	
	1.Mini Rice Mill	<b>20,000</b>
	2.Composite Rice Mill	<b>30,000</b>
	3.Modern Rice Mill	<b>50,000</b>
	4.Clearer cum Grader	<b>15,000</b>
	5.Destoner	<b>15,000</b>
	6.Paddy husker	<b>10,000</b>
	7.Paddy separator	<b>15,000</b>
	8.Rice Grader	<b>10,000</b>
	9.Bran Aspirator	<b>10,000</b>
	10.Flour Mill	<b>15,000</b>
	11.Pulversier	<b>15,000</b>
	12.Sugarcane Crusher	<b>20,000</b>
	13.Shewai Machine	<b>10,000</b>



<b>Sr. No.</b>	<b>Particulars</b>	<b>Testing Charges</b>
	14.Papad Machine	<b>10,000</b>
	15.Paddy Thresher	<b>15,000</b>
	16.Juicer	<b>5,000</b>
	17.Grinder	<b>5,000</b>
	18.Poha Mill	<b>20,000</b>
	19.Polisher	<b>15,000</b>
	20.Pulse Mill	<b>50,000</b>
	21.Oil Mill	<b>50,000</b>

**Note:**

1. Testing of equipments will be on site.



**No. (Start from 2001 & end at 3000)**  
**MAHATMA PHULE KRISHI VIDYAPEETH**  
**RAHURI, 413 722, DIST. – AHMEDNAGAR**  
**MAHARASHTRA**  
***DIRECTORATE OF RESEARCH***  
**Application Form For Testing of Product**

- 1) **Name of the Firm :**
  
- 2) **Name of proprietor/ owner of firm :**
  
- 3) **Name of the product offered for testing / trial :**
  
- 4) **Technical details or composition of product with quantitative analytical estimates :**
  
- 5) **Package (s) of products available :**
  
- 6) **Claims with specific parametric achievements (attach literature in support of the claim) :**
  
- 7) **Doses of the products on a crop :**

- 8) **Schedule of treatment to be followed quantity :  
wise**
  
- 9) **Methods of use & any special equipment :  
required**
  
- 10) **What control / check to be used in :  
experimental testing for comparison purposes.**
  
- 11) **Crops, season & locations where experiments :  
can be laid out**
  
- 12) **Quantity of samples & area proposed for :  
experimental purpose.**
  
- 13) **Any other relevant information :**

**Date**

**Signature**



**DIRECTORATE OF RESEARCH**  
**MAHATMA PHULE KRISHI VIDYAPEETH**  
RAHURI, 413 722, DIST. – AHMEDNAGAR  
MAHARASHTRA

**Terms and conditions for product testing**  
**(Univ. Reso. No. MTG-2(129)/87/of2013, dated16/7/2013)**

1. The firm interested in testing of their products by the University should contact the Director of Research and submit the application in the prescribed form (Proforma enclosed).
2. The manufacturer will initiate the correspondence well in advance so that the testing can be taken in normal planting season of the crop. The University has right to postpone the testing in the next season in case the sample and testing fees are not received in time.
3. The firm concerned should supply the product to be tested, free of cost, well in advance and in sufficient quantity.
4. The firm should give detail information about the active ingredients, chemical composition, adjuvants, biological and other properties of the product and the purpose of testing.
5. On acceptance of testing, the prescribed fees will have to be paid by the firm in advance, for testing the product, by D. D. on S. B. I. drawn in the name of P. A. O. of the respective region i. e. Pune, Dhule, Kolhapur or MPKV., Rahuri.
6. The University will not recommend the product unless tested for three seasons or as decided by the University but will make available the results to the concerned firm only.
7. The details of the layout of field experiments will be finalized by the concerned scientist in consultation with the concerned Head of the Department and the Director of Research.
8. The results of the product will be made available to the firm concerned at the end of the season.
9. The University reserves the right to accept/reject or modify the testing the product, for which no reason will be given thereof.
10. In the event of failure of the trial due to natural calamities or things beyond the control of the scientists concerned, the testing will be repeated for one more season and the firm will have to bear additional 50 per cent expenses as per described fees for the season which shall be paid in advance.
11. The university also reserves the right for publishing the findings of the work.
12. In any case, once the product testing is undertaken by the University after receipt of payments, the testing / trials will not be cancelled and the fees will not be refunded to the firm.
13. In case of dispute in the testing of the product, the decision of the university authority will be final. The firm shall not take any legal action against the university.
14. The fees for testing the product for animals and birds will be decided by the Director of Research in consultation with the concerned Head of the Department, based on type of the trial and work involved. Other terms and conditions will remain same as above.
15. The Mahatma Phule Krishi Vidyapeeth, Rahuri is established under the Government of Maharashtra. It is engaged primarily in Agricultural Education, Research and Extension Education activities and as such this University is not entitled to issue the Tax Exemption Certificate. Similarly, there is no Provision of Accepting Testing Fees after Deducting Tax at Source.



**No. (Start from 2001 & end at 3000)**  
**MAHATMA PHULE KRISHI VIDYAPEETH**  
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**MAHARASHTRA**  
***DIRECTORATE OF RESEARCH***

**Application Form For Testing Hybrids / Varieties of Seed Companies**

- 1) Name of the Seed Company :
- 2) Name of proprietor/ owner of Seed Company :
- 3) Name of the crop & hybrids / varieties to be used :
- 4) Location where trial can be laid out (Preference if any) : I.  
II.  
III.
- 5) Season Kharif / Rabbi / Summer :
- 6) Conditions under which testing is to be done (Irri. / :  
Rainfed)
- 7) Trials to be conducted for :
  - i. Yield performance
  - ii. Reaction to major diseases
  - iii. Reaction to major pests
  - iv. Testing for quality of parameters (Oil / Protein etc.)
- 8) Claims with specific parametric achievements viz. :  
Morphological / genetical characters, reaction to diseases and pests yield performance etc.
- 9) Letter of authorization to test / screen the variety :
- 10) Any other relevant information :

Place :

Date :

Signature



**MAHATMA PHULE KRISHI VIDYAPEETH**  
**RAHURI, 413 722, DIST. – AHMEDNAGAR**  
**MAHARASHTRA**  
***DIRECTORATE OF RESEARCH***

**(Univ. Reso. No. MTG-2(129)/87/of2013, dated16/7/2013)**

**Terms and conditions for testing hybrids/varieties of seed companies**

1. The seed company interested in testing of their hybrids/varieties by the university should contact the Director of Research and submit the application in the prescribed form (proforma enclosed).
2. The seed company will initiate the correspondence well in advance so that the testing can be taken in normal planting season of the crop. The university has right to postpone the testing in i. e. before 31<sup>st</sup> May for Kharif, 31<sup>st</sup> August for Rabi and 31<sup>st</sup> January for summer season.
3. The seed company concerned should supply the hybrids/varieties to be tested, free of cost, well in advance an in sufficient quantity as decided by the University.
4. The seed company should give detail information regarding morphological/genetical characters, reaction to diseases and pests, quality parameters and yield performance of the hybrids/varieties and the purpose of testing.
5. On acceptance of testing, the prescribed fees will have to be paid by the company in advance, for testing the hybrids/varieties by DD on S. B. I. drawn in the name of P. A. O. of the respective region Pune, Dhule, Kolhapur or MPKV., Rahuri.
6. The details of the layout of field experiments will be finalized by the concerned scientist in consultation with the concerned Head of the Department and the Director of Research.
7. The results of the hybrids/varieties tested will be made available to the seed company concerned at the end of the season.
8. The University reserves the right to accept/reject or modify the testing of hybrid/varieties, for which no reason will be given thereof.
9. In the event of failure of the trial due to natural calamities or things beyond the control of the scientists concerned, the testing will be repeated for one more season and the seed company will have to bear additional 100 per cent expenses as per prescribed fees for the season which shall be paid in advance.
10. The University also reserves the right for publishing the findings of the work.

11. In case of dispute in the testing the hybrid variety the decision of the university authority will be final. The firm shall not take any legal action against the university.
12. In any case, once the product testing is undertaken by the University after receipt of payments, the testing / trials will not be cancelled and the fees will not be refunded to the firm.
13. The Mahatma Phule Krishi Vidyapeeth, Rahuri is established under the Government of Maharashtra. It is engaged primarily in Agricultural Education, Research and Extension Education activities and as such this University is not entitled to issue the Tax Exemption Certificate. Similarly, there is no Provision of Accepting Testing Fees after Deducting Tax at Source.

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