

**Appendix-I**  
**Revised of Product Testing Charges**

(In Rupees)

| Sr. No. | Particulars  | Existing Testing Charges | Proposed Testing Charges | Remarks                           |
|---------|--|--------------------------|--------------------------|-----------------------------------|
| 1       | Testing of liquid fertilizers, fertilizers, growth hormones, micronutrients, pesticides for bioefficacy, (per crop, per season, per product, per pest/disease), (In field/pot culture) |                          |                          |                                   |
|         | a)Cereals, oilseeds and pulses (Excluding Pigeonpea)   | 60,000/- Fields/Pot.     | 1,20,000/- Fields/Pot.   |                                   |
|         | b)All vegetables   | 75,000/-Fields/Pot.      | 1,50,000/- Fields/Pot.   |                                   |
|         | c) Cotton, pigeonpea, Turmeric and Ginger  | 75,000/- Fields/Pot.     | 1,50,000/- Fields/Pot.   |                                   |
|         | d) Sugarcane   |                          |                          |                                   |
|         | i)Suru   | 90,000/-                 | 1,50,000/-               |                                   |
|         | ii)Pre-seasonal  | 1,00,000/-               | 1,75,000/-               |                                   |
|         | iii)Adsali   | 1,25,000/-               | 2,00,000/-               |                                   |
|         | e) Banana, grapes, pomegranate, Strawberry and other fruits/Floriculture (Open field)  | 90,000/-                 | 1,50,000/-               |                                   |
|         | f) Protected cultivation of vegetables & flowers   | 1,50,000/-               | 3,00,000/-               |                                   |
|         | g) Additional information about effect of pesticides for each study : Natural Enemies (predators, parasite) phytotoxicity and Compatibility  | 20,000/- each            | 30,000/- each            |                                   |
|         | h) Weedicides/Herbicides testing in cropped area   | 60,000/-                 | 1,20,000/-               |                                   |
|         | i)Weedicides/Herbicides testing in noncropped area   | 50,000/-                 | 1,00,000/-               |                                   |
|         | j) Testing of seeds per sample for   |                          |                          |                                   |
|         | a) Physical purity/Germination percentage test   | 200/-                    | --                       |                                   |
|         | b) Genetic purity  | 500/-                    | --                       | As per the Govt. approved charges |

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| c) DNA finger printing   | 20,000/-                                | 30,000/-                                |
| d) Charges for issuing certificate of Bio-technology laboratory  | 50,000/-                                | 80,000/-                                |
| k) Testing of grapes fruit bud differentiation of farmers sample (per sample)  | 200/-                                   | 1000/-                                  |
| l) Charges for testing the product against more than one pest/disease in the same experiment   | 25% for every additional pest /disease  | 25% for every additional pest /disease  |
| m) Charges for follow up trial   | Full charges as per crop                | Full charges as per crop                |
| n) In addition to above, additional charges for soil and plant analysis result of each study   | 10,000/-                                | 25,000/-                                |
| o) Testing of biofertilizer/bioagents/biopesticides/Biostimulants  | Full charges as per product/crop/season | Full charges as per product/crop/season |
| 2 Azadirachtin content (Neem based ) for Lab. Analysis   | 10,000/-                                | 25,000/-                                |
| 3 a)Spore count and cfu at $10^{-6}$ , $10^{-7}$ dilution, pH, Moisture content and other contaminant in Biofertilizer / Biopesticide    | 3,000/-                                 | 10,000/-                                |
| 4 Analytical test report of biofertilizers/biopesticides company   | 5,000/-                                 | 10,000/-                                |
| 5 Harvest time residues in consumable products per product/crop/season<br>(Fruit/Vegetable/Cereals/Pulses/ Milk/ Meat)<br>Company sample |   |   |
| Sole Insecticide   | 1,00,000/-                              | 1,50,000/-                              |
| Combination product  | -                                       | 3,00,000/-                              |
| Furners sample   | 15,000/-                                | 30,000/-                                |
| 6 Disruption studies on one crop or soil for weevils   | 1,50,000/-                              | 2,00,000/-                              |

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| 7  | Analysis of shelf life study of processed product<br>Sensory evaluation<br>Microbial parameters<br>Chemical parameter | As per crop                                    | 25,000/-<br>25,000/-<br>As per Sr. No. 13 (VI - analysis of food) |
| 8  | Testing of varieties/hybrids per entry/location/season<br>For yield   | 50,000/-<br>75,000/-<br>25,000/-<br>1,50,000/- | 1,00,000/-<br>1,50,000/-<br>50,000/-<br>3,00,000/-                |
| 9  | Mineralization / transformation/release pattern of manures, fertilizers micronutrients formulations in lab            | 50,000/-                                       | 1,00,000/-  |
| 10 | <b>Irrigation Systems/Equipments</b>  |  |   |
|    | a) Testing of drip/sprinkler set without crop   | Set to be retained + 50,000/-                  | Set to be retained with installation + 75,000/-                   |
|    | b) Testing of raingun without crop  | Set to be retained + 50,000/-                  | Set to be retained with installation + 75,000/-                   |
|    | c) Testing of subsurface irrigation system without crop only Hydraulics   | Set to be retained + 50,000/-                  | Set to be retained with installation + 75,000/-                   |
|    | d) Testing of drip / sprinkler set with crop  | Set to be retained + 50,000/-+ crop charges    | Set to be retained with installation + 75,000/- + crop charges    |
|    | e) Testing of raingun with crop   | Set to be retained + 50,000/- + crop charges   | Set to be retained with installation + 75,000/- + crop charges    |

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| f) | Testing of subsurface irrigation system | Set to be retained + installation charges + crop   | Set to be retained with installation + 1,00,000/- + crop charges  |
| 11 | Liquid / solid soluble fertilizers      | Drip set to be retained + Rs.50,000 + product testing charges as per crop or Rs.75,000 + product testing charges as per crop | Drip set to be retained with installation + Rs.75,000 for liquid fert. + product testing charges as per crop or Rs.1,00,000 for solid fert. + product testing charges as per crop |
| 12 | Roughness coefficient for pipes         | a) PVC/HDPE pipes<br>Rs.25,000/-<br>b) GI/CI pipes<br>Rs.30,000/-  | a. PVC/HDPE pipes<br>Rs.50,000/-<br>b. GI/CI pipes<br>Rs.60,000/-   |
|    | 2. Pumping System                       | a) Treadle pumps reciprocating/Bullock Drawn<br>b) Centrifugal pumps monoblock / submersible                                 | Set to be retained + 25,000/-<br>Set to be retained + 25,000/-  |

**Note:** 1) The fees for crop trials are for area not more than 10 R

2) For additional each 1R area will be charged @ 10 % of testing fees

3) Additional fees will be charged on the basis of area, number of treatments and replications.




| Sr.No.  | Particulars                                       | Existing Testing Charges | Proposed Testing Charges | Remarks |
|---|---|--------------------------|--------------------------|---------|
| <b>I3</b>   | Analysis of sample for various parameter / sample |                          |                          |         |
| <b>I</b>  |   |                          |                          |         |
| 1.pH  |   | 25/-                     | 75/-                     |         |
| 2.Ec  |   | 25/-                     | 75/-                     |         |
| 3.Available N   |   | 100/-                    | 200/-                    |         |
| 4.Available P   |   | 100/-                    | 200/-                    |         |
| 5. Available k  |   | 100/-                    | 200/-                    |         |
| 6.Calcium carbonate   |   | 50/-                     | 100/-                    |         |
| 7.Organic carbon  |   | 60/-                     | 150/-                    |         |
| 8.Exchangeable Ca, Mg, Na and K   |   | 50/- each                | 100/- each               |         |
| 9.CEC   |   | 200/-                    | 400/-                    |         |
| 10. Analysis of soluble salts (Ca, Mg, Na, K, CO <sub>3</sub> , HCO <sub>3</sub> , Cl, SO <sub>4</sub> )    | 60/- each   | 150/- each               |                          |         |
| 11. Lime requirement  | 100/-   | 200/-                    |                          |         |
| 12. Gypsum requirement  | 100/-   | 200/-                    |                          |         |
| 13. Micronutrients (Fe, Cu, Zn, Mn, B, Mo)  | 100/- each  | 200/- each               |                          |         |
| 14. Mechanical analysis   | 150/-   | 250/-                    |                          |         |
| 15.Bulk density   | 75/-  | 100/-                    |                          |         |
| 16. Hydraulic conductivity  | 150/-   | 250/-                    |                          |         |
| 17.Water holding capacity   | 150/-   | 250/-                    |                          |         |
| <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  | 150/- each               |                          |         |
| 2.pH  | 25/-  | 50/-                     |                          |         |

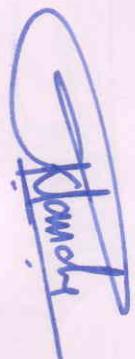
|            |   |            |            |  |
|------------|---|------------|------------|--|
|            | <b>3.EC</b>                                     | 25/-       | 50/-       |  |
| <b>III</b> | <b>Plant and plant parts / fodder and feeds</b> |            |            |  |
| 1.         | Total Nitrogen                                  | 100/-      | 250/-      |  |
| 2.         | Total phosphorus                                | 100/-      | 250/-      |  |
| 3.         | Total Potassium                                 | 100/-      | 250/-      |  |
| 4.         | Ca, Mg, Na, and k                               | 100/- each | 250/- each |  |
| 5.         | Micronutrients (Fe, Mn, Zn, Cu)                 | 100/- each | 250/- each |  |
| 6.         | Ether extract                                   | 200/-      | 300/-      |  |
| 7.         | Acid insoluble matter                           | 100/-      | 200/-      |  |
| 8.         | Moisture  | 100/-      | 150/-      |  |
| 9.         | Water insoluble matter                          | 100/-      | 200/-      |  |
| 10.        | Ash   | 150/-      | 200/-      |  |
| 11.        | Acidity   | 100/-      | 150/-      |  |
| <b>IV</b>  | <b>Sewage</b>                                   |            |            |  |
| 1.         | Total solids                                    | 150/-      | 300/-      |  |
| 2.         | Nitrogen  | 150/-      | 300/-      |  |
| 3.         | Phosphorus                                      | 150/-      | 300/-      |  |
| 4.         | Potassium                                       | 150/-      | 300/-      |  |
| 5.         | pH  | 25/-       | 75/-       |  |
| 6.         | EC  | 25/-       | 75/-       |  |
| 7.         | BOD   | 200/-      | 350/-      |  |
| 8.         | COD   | 200/-      | 350/-      |  |
| 9.         | Dissolved oxygen                                | 100/-      | 400/-      |  |
| 10.        | Micronutrients and heavy metals                 | 150/- each | 300/- each |  |
| <b>V</b>   | <b>Manures and fertilizers</b>                  |            |            |  |
| 1.         | Total N   | 200/-      | 400/-      |  |
| 2.         | Total P   | 400/-      | 600/-      |  |

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| 3. Ammonical N  | 100/-      | 200/-      |  |
| 4. Nitrate N  | 100/-      | 200/-      |  |
| 5. Water soluble P  | 400/-      | 600/-      |  |
| 6. Citrate soluble P  | 400/-      | 600/-      |  |
| 7. Water soluble K  | 150/-      | 300/-      |  |
| 8. Total potash   | 200/-      | 400/-      |  |
| 9. Acidity in ammonium sulphate   | 100/-      | 200/-      |  |
| 10. Free acidity in super phosphate   | 100/-      | 200/-      |  |
| 11. Acid soluble (CaO, MgO, NaO, K2O)   | 100/- each | 200/- each |  |
| 12. Ash   | 200/-      | 300/-      |  |
| 13. Moisture  | 200/-      | 300/-      |  |
| 14. Organic carbon  | 300/-      | 400/-      |  |
| 15. Humic acid  | 400/-      | 600/-      |  |
| 16. Fulvic acid   | 400/-      | 600/-      |  |
| 17. pH  | 100/-      | 150/-      |  |
| 18. EC  | 100/-      | 150/-      |  |
| <b>VI Analysis of food</b>  |            |            |  |
| 1. Determination of oil quality, physical/ chemical parameters                    | 1000/-     | 1500/-     |  |
| 2. Determination of ascorbic acid in fruits/ vegetables                           | 250/-      | 400/-      |  |
| 3. Determination of polyphenols and tannins                                       | 250/-      | 400/-      |  |
| 4. Determination of $\beta$ -carotene   | 250/-      | 400/-      |  |
| 5. Determination of amino acids methionine & tryptophan                           | 250/-      | 400/-      |  |
| 6. Determination of plant pigment (Chlorophyll a + b)                             | 250/-      | 400/-      |  |
| 7. Determination of total amino acids or protein or rod gels (Minimum 10 samples) | 250/-      | 400/-      |  |
| 8. SDS-PAGE pattern of soluble proteins on slab gels                              | 1000/-     | 1500/-     |  |
| 9. Determination of Proline   | 250/-      | 400/-      |  |
| 10. Determination of Reducing Sugars  | 250/-      | 400/-      |  |
| 11. Determination of non-reducing sugars  | 250/-      | 400/-      |  |
| 12. Determination of Crude Proteins   | 250/-      | 400/-      |  |



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| 13. Determination of Crude Fiber  | 250/-        | 400/-        |  |
| 14. Determination of amylase content  | 250/-        | 400/-        |  |
| 15. Determination of Capsaicin content  | 250/-        | 400/-        |  |
| 16. Determination Curcumin Content  | 250/-        | 400/-        |  |
| 17. Determination of IVPDI/IVSD   | 250/-        | 400/-        |  |
| 18. Determination of Lysine content   | 250/-        | 400/-        |  |
| 19. Determination of total P.& phytate phosphorus   | 250/-        | 400/-        |  |
| 20. Determination of trypsin inhibitor activity   | 500/-        | 700/-        |  |
| 21. Evaluation of protein fractions   | 500/-        | 700          |  |
| 22. Estimation of gossypol content  | 500/-        | 1000/-       |  |
| 23. Determination of enzyme activity (Minimum 10 samples)   |              |              |  |
| a. Perozidase (POD)   | 250 / sample | 400 / sample |  |
| b. Polyphenol oxidase (PRO)   | 250 / sample | 400 / sample |  |
| c. Alfa-amylase   | 250 / sample | 400 / sample |  |
| d. Nitrate reductase  | 250 / sample | 400 / sample |  |
| e. Phenyl lamine lyase (PAL)  | 250 / sample | 400 / sample |  |
| f. Chitinase/gulcanase  | 250 / sample | 400 / sample |  |
| g. Crude oil cotent   | 250 / sample | 400 / sample |  |
| h. Superoxide dismutase   | 250 / sample | 400 / sample |  |
| i. Ascrobate peroxidase   | 250 / sample | 400 / sample |  |
| j. Glutathione peroxidase   | 250 / sample | 400 / sample |  |
| 24. Analysis of oleo-raisins  | 10000/-      | 20,000/-     |  |
| 25. Analysis of processed fruits & Vegetable products, other food 25. products depending upon the analysis (per parameter)    | 750/-        | 1500/-       |  |
| 26. Practical demonstration of single processed product of fruits or vegetables or bakery products                            | 750/-        | 1500/-       |  |
| 27. Analysis of carbohydrates – Sugar, cellulose, hemi cellulose, lignin, ADF, NDF etc. (Minimum ten samples or part thereof) | 7,500/-      | 15,000/-     |  |

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| <b>VII</b> | <b>Field testing of farm machinery and equipments<br/>(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/-       | The field testing of farm machinery and equipments (Tractor drawn) charges will be as per the approved rates from the Additional Commissioner (Machinery), Ministry of Agriculture and Farmers Welfare, Department of Agriculture, Cooperation and Farmers Welfare (Mechanization and Technology Division) Govt. of India revised from time to time. The concerned revised charges confirmed by respective University. |
| 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.        | Rotavaator  | 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 leveller  | 30,000/-       |  |
| 17.        | Cultivator  | 30,000/-       |  |
| 18.        | Sprayer (tractor drawn)   | 30,000/-       |  |
| 19.        | Sprayer (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 tap                                | 5,000/ season  |  |
| 25.        | Agricultural trailor (Two wheel)  | 30,000/-       |  |
| 26.        | Any other implements/ tools   | 30,000/-       |  |
| <b>VII</b> | <b>Hand tools/ manually operated</b>                                      | <b>5,000/-</b> | The field testing of farm machinery and equipments (Tractor drawn) charges will be as per the approved rates from the  |
| 1.         | Sickles / Khurpee etc   | 10,000/-       |  |
| 2.         | Seed, Cum Fertilizer Drill/ Planter                                       | 10,000/-       |  |
| 3.         | Weeder  | 10,000/-       |  |

|           |  |          |  |
|-----------|--|----------|--|
|           | 4. Thresher                                      | 10,000/- | Additional Commissioner (Machinery), Ministry of Agriculture and Farmers Welfare, Department of Agriculture, Cooperation and Farmers Welfare   |
|           | 5. Chaff cutter                                  | 10,000/- |  |
|           | 6. Cycle hoe                                     | 10,000/- |  |
|           | 7. Coconut Dehusker                              | 10,000/- |  |
|           | 8. Sprayer pump                                  | 10,000/- | (Mechanization and Technology Division) Govt. of India revised from time to time. The concerned revised charges confirmed by respective  |
|           | 9. Tiller cutter (except prime mover)            | 35,000/- | Division) Govt. of India revised from time to time. The concerned revised charges confirmed by respective  |
|           | 10. Any other implements/ tools                  | 10,000/- | University.  |
| <b>IX</b> | <b>Bullock Drawn Implements</b>                  |          |  |
|           | 1. Mould Board Plough                            | 10,000/- |  |
|           | 2. Disc Harrow                                   | 35,000/- |  |
|           | 3. Puddler                                       | 10,000/- |  |
|           | 4. Seed Cum Fertilizer Drill/Planter             | 15,000/- |  |
|           | 5. Levelling (Keni)/Scoop                        | 15,000/- | Additional Commissioner (Machinery), Ministry of Agriculture and Farmers Welfare, Department of Agriculture, Cooperation and Farmers Welfare, Department of Agriculture, Cooperation and Farmers Welfare |
|           | 6. Weeder  | 15,000/- | (Mechanization and Technology Division) Govt. of India revised from time to time. The concerned revised charges confirmed by respective  |
|           | 7. Cultivator                                    | 15,000/- |  |
|           | 8. Bund Former                                   | 15,000/- |  |
|           | 9. Ridger  | 15,000/- |  |
|           | 10. Transplanter                                 | 15,000/- |  |
|           | 11. Sprayer                                      | 15,000/- |  |
|           | 12. Bullock cart                                 | 15,000/- |  |
|           | 13. Steel Wheel or Rubber Wheel Bullockcart      | 15,000/- |  |
|           | 14. Sugarcane Earthing up Equipments             | 20,000/- |  |
|           | 15. Multipurpose tool bar                        | 25,000/- |  |
|           | 16. Any other implement/ tool                    | 15,000/- |  |
| <b>X</b>  | <b>Performance testing processing equipments</b> |          |  |
|           | 1. Mini rice Mill                                | 20,000/- | The field testing of farm machinery and equipments (Tractor drawn) charges will be as per the approved rates from the Additional Commissioner (Machinery),   |
|           | 2. Composite Rice Mill                           | 30,000/- |  |
|           | 3. Modern Rice Mill                              | 50,000/- |  |
|           | 4. Cleaver Cum Grader                            | 15,000/- |  |
|           | 5. Deboner                                       | 15,000/- | Ministry of Agriculture and Farmers Welfare  |

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| 6. Paddy Husker   | 10,000/- | Welfare, Department of Agriculture,<br>Cooperation and Farmers Welfare |
| 7. Paddy Separator  | 15,000/- |  |
| 8. Rice Grader  | 10,000/- |  |
| 9. Bran Aspirator   | 10,000/- |  |
| 10. Flour Mill  | 15,000/- |  |
| 11. Pulveriser  | 15,000/- |  |
| 12. Sugarcane Crusher   | 20,000/- |  |
| 13. Shewai Machine  | 10,000/- |  |
| 14. Papad Machine   | 10,000/- |  |
| 15. Paddy Thresher  | 15,000/- |  |
| 16. Juicer  | 5,000/-  |  |
| 17. Grinder   | 5,000/-  |  |
| 18. Poha Mill   | 20,000/- |  |
| 19. Polisher  | 15,000/- |  |
| 20. Pulse Mill  | 50,000/- |  |
| 21. Oil Mill  | 50,000/- |  |
| <b>14. Spraying through Drone Technology</b>  |          |  |
| a) Cereals, oilseeds and pulses (Excluding Pigeonpea)                                 | --       | 5,00,000/-   |
| b) All vegetables   | --       | 5,00,000/-   |
| c) Cotton, pigeonpea, Turmeric and Ginger   | --       | 7,00,000/-   |
| d) Sugarcane  | --       | 8,00,000/-   |
| e) Banana, grapes, pomegranate, Strawberry and other fruits/Floriculture (Open field) | --       | 10,00,000/-  |

Note : The products/ items and their rates which are not covered above should be finalized at respective university level.

Khande  
 23.11.21  
 (M.C. Kasture)  
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Dawale  
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 M.P.W., Rahuri)

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 M.P.W., Rahuri)

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 DDR (Agric.)  
 V.N.M.K.V., Parbhani

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