

At **BhoomiSeva**, we are passionate about transforming agriculture through our innovative Automated Soil Testing Equipment manufactured by **HiMedia** and Government Approved Soil Health Card report. Soil health is the foundation of successful farming, and our cutting-edge solutions empower farmers to make informed decisions and optimize their agricultural practices.

**BHU-Vision** (Rapid Automated Soil Analysis Apparatus)- an automated soil analysis system for use in agriculture that is designed to test soil nutrient content and generate a customized fertilizer recommendation on the go.

BHU-Vision device (licensed manufactured and marketed by himedia) is developed by Indian Institute of Rice Research (ICAR – IIRR) in a joint venture with **Krishitantra**. The product is validated and jointly developed by 12 scientists of various ICAR institute across India along with Krishitantra team. The accuracy of BHU-Vision is found to be nearly 95% accurate in comparison with conventional methods.



### BHU-Vision Device - Product Specification

Dimensions	
Overall length	450mm
Overall width	370 mm
Overall height	440 mm
Weight	
Weight without chemicals	12.55 Kg
Power	
Voltage	230V AC/ 12 V DC
Wattage	24 W
Operating Temperature	22-40 Deg. Celsius (for chemicals)
Storage Temperature	25-30 Deg. Celsius (with chemicals) 15-40 Deg. Celsius (without chemicals)
Accessories	Power Supply, EC electrode, pH electrode, weighing scale, 2 Beakers, 3 x 60ml bottles, 3 x 125ml bottles, 3 funnels, 125 ml dropping bottle, 2 x 15ml centrifugal tubes, Controlling Tab , Filter Papers
Chemical Reagents	Nitrogen-A sachet, Nitrogen-B sachet, Nitrogen-C, Nitrogen-D, Phosphorous, Potassium, Sulfur, Micro-nutrients-A, Micro-nutrients-B, Micro-nutrients-B salt, Organic Carbon-A, Organic Carbon-B, EC buffer, pH buffer (4 & 7)

### Test Parameters

<b>N</b> Nitrogen	<b>Zn</b> Zinc
<b>P</b> Phosphorus	<b>B</b> Boron
<b>K</b> Potassium	<b>Oc</b> Organic Carbon
<b>S</b> Sulfur	<b>Ec</b>
<b>Cu</b> Copper	<b>pH</b>
<b>Fe</b> Iron	<b>Mn</b> Manganese

# Sample Soil Health Card

SOIL HEALTH CARD		
<b>Test Center</b> Name - STL Chandigarh Address - Udupi # 2023-87-123541-dvxy Sample Number - 1234	<b>Farmer Details</b> Name - Ramesh Address - Udupi, Udupi, Udupi, Udupi , Karnataka	<b>Sample Information</b> Selected Crop - Paddy, Wheat, Watermelon, Turmeric, Sweet potato, Garlic Plot Size - 29.650 acre Survey No. - 1234 Sampling Date - March 20, 2023 Testing Date - March 22, 2023
<b>pH 7.00</b> Range: 6.5 - 7.5 Recommendation :	<b>Zinc 0.60 ppm</b> Range: > 0.60 Recommendation :	<b>Scale</b> High, Acid, Saline, Highly Alkaline (Red) Low (OC, OM) (Orange) Medium, Deficient (Yellow) Medium, Neutral, Sufficient, Alkaline, Slightly Acidic (Green) High (OC, OM) (Dark Green) Not selected (Grey)
<b>EC 0.30 dS/m</b> Range: < 1 Recommendation :	<b>Boron 1.00 ppm</b> Range: > 0.50 Recommendation :	
<b>Organic Carbon 0.50 w%</b> Range: 0.50 - 0.75 Recommendation :	<b>Manganese 0.35 ppm</b> Range: > 2.0ppm Recommendation :	
<b>Organic Matter 0.86 w%</b> Range: 0.86 - 1.29 Recommendation :		
<b>Nitrogen 345 kg/ha</b> Range: 280 - 560 Recommendation : 20 kg/ha		
<b>Phosphorus 23.00 kg/ha</b> Range: 22.4 - 56.0 Recommendation : 10 kg/ha		
<b>Potassium 45.0 kg/ha</b> Range: 135 - 336 Recommendation : 10 kg/ha	 Government of India Ministry of Agriculture and Farmers Welfare Department of Agriculture and Farmers Welfare STI, Chandigarh	
<b>Sulphur 0.50 ppm</b> Range: 10 - 20 Recommendation : 50.00 kg/ha		
<b>Copper 0.50 ppm</b> Range: > 0.20 Recommendation :		
<b>Iron 0.10 ppm</b> Range: > 2.50 Recommendation : 10.00 kg/ha		

Recommendation   Plot Size - 29.650 acre			
Crop	Soil Conditioner / Amendment	Macronutrient Fertilizer (in Kg/Bag)	Micronutrient Fertilizer
Paddy		DAP (50 Kg/Bag) - 5 bags and 11.00 kgs MOP (50 Kg/Bag) - 4 bags Urea (45 Kg/Bag) - 9 bags and 14.40 kgs	Ferrous sulphate heptahydrate (50 Kg/Bag) - 12 bags and 15.50 kgs Bentonite sulphur (1 Kg/Bag) - 6666 bags and 670.00 grams
Wheat		DAP (50 Kg/Bag) - 39 bags and 6.50 kgs MOP (50 Kg/Bag) - 25 bags Urea (45 Kg/Bag) - 40 bags and 43.20 kgs	Ferrous sulphate heptahydrate (50 Kg/Bag) - 12 bags and 15.50 kgs Bentonite sulphur (1 Kg/Bag) - 6666 bags and 670.00 grams
Watermelon		DAP (50 Kg/Bag) - 45 bags and 45.50 kgs MOP (50 Kg/Bag) - 55 bags Urea (45 Kg/Bag) - 38 bags and 0.45 kgs	Ferrous sulphate heptahydrate (50 Kg/Bag) - 12 bags and 15.50 kgs Bentonite sulphur (1 Kg/Bag) - 6666 bags and 670.00 grams
Turmeric		DAP (50 Kg/Bag) - 5 bags and 11.00 kgs MOP (50 Kg/Bag) - 4 bags Urea (45 Kg/Bag) - 9 bags and 14.40 kgs	Ferrous sulphate heptahydrate (50 Kg/Bag) - 12 bags and 15.50 kgs Bentonite sulphur (1 Kg/Bag) - 6666 bags and 670.00 grams
Sweet potato		DAP (50 Kg/Bag) - 5 bags and 11.00 kgs MOP (50 Kg/Bag) - 4 bags Urea (45 Kg/Bag) - 9 bags and 14.40 kgs	Ferrous sulphate heptahydrate (50 Kg/Bag) - 12 bags and 15.50 kgs Bentonite sulphur (1 Kg/Bag) - 6666 bags and 670.00 grams
Garlic		DAP (50 Kg/Bag) - 5 bags and 11.00 kgs MOP (50 Kg/Bag) - 4 bags Urea (45 Kg/Bag) - 9 bags and 14.40 kgs	Ferrous sulphate heptahydrate (50 Kg/Bag) - 12 bags and 15.50 kgs Bentonite sulphur (1 Kg/Bag) - 6666 bags and 670.00 grams

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## Packaging Contents

The toolkit for BHU-Vision includes the following:

Item	Quantity
BHU-Vision device	1
SMPS/DC power supply	1
60 ml bottle	3
125 ml bottle	3
100 ml beaker	2
Electrical Conductivity probe	1
pH probe	1
Funnel	3
Weighing scale	1
Centrifuge tube	2
Tab	1

**BhoomiSeva**  
Nurturing Soil

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### - CORPORATE OFFICE

BhoomiSeva  
HCF Tesch Services Pvt. Ltd.  
A Wing, 2nd Floor, Pramukh Plaza, Cardinal Gracious Road, Chakala,  
Andheri (East) - 400099, Mumbai, Maharashtra, India.  
Tel : +91 22- 68219817 Email : info@bhoomiseva.com