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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	450 mm	
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, 3×60 ml bottles, 3×125 ml bottles, 3 funnels, 125 ml dropping bottle, 2×15 ml 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

N Nitrogen	Zn zinc	
Phosphorus	Boron	
K	Oc Organic Carbon	
Sulfur	Ec	
Cu	рН	
Fe	Mn Manganese	

SAMPLE SOIL HEALTH CARD

Test Center

Farmer Details

Sample Information

Selected Crop - Paddy, Wheat, Watermelon, Turmeric, Sweet potato, Garlic Plot Size - 29.650 acre Survey No. - 1234 Sampling Date - October 11, 2022 Testing Date - March 22, 2023



pH 7.00 Range: 6.5 - 7.5 Recommendation:

EC 0.30 dS/m

Recommendation :



Zinc 0.60 ppm Range: > 0.60 Recommendation :



Boron 1.00 ppm

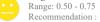


Range: > 0.50 Recommendation:





Organic Carbon 0.50 w%



Range: < 1

Manganese 0.35 ppm Range: > 2.0ppm

Recommendation



Scale



Organic Matter 0.86 w% Range: 0.86 - 1.29 Recommendation:

Medium (OC,OM)



Nitrogen 345 kg/ha Range: 280 – 560 Recommendation: 20 kg/ha Medium, Neutral, Sufficient, Alkaline, Slightly Acidic High (OC,OM)



Phosphorus 23.00 kg/ha Range: 22.4 – 56.0 Recommendation: 10 kg/ha

Not selected





Potassium 45.0 kg/ha Range: 135 – 336





Government of India Ministry of Agriculture and Farmers Welfare Department of Agriculture and Farmers Welfare



Recommendation:

Copper 0.50 ppm Range: > 0.20

Sulphur 0.50 ppm

Range: 10 - 20



Iron 0.10 ppm Range: > 2.50

Recommendation: 10.00 kg/ha

Recommendation: 50.00 kg/ha

STL Chandigarh

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

Certified by





Manufactured under the licence given by Krishitantra





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