



Foliar micronutrient addition for healthier rice

Enhancing Yield and Nutrition with Micronutrient Sprays

The technology "Foliar Micronutrient Addition for Healthier Rice" is developed to address micronutrient deficiencies in rice crops. The application of micronutrients onto the rice canopy aims to enhance the harvest yield and nutritional quality of the grain without requiring extensive investment or infrastructure.





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Technology originally documented by

ProPAS

Commodities

Rice

Sustainable Development Goals







Categories

Production, Practices, Yield improvement

Tested/adopted in





Key points to design your project

• Crucial deficient of soil in rice-growing areas in

copper, zinc, manganese, and boron. · Low rice yield and micronutrient content

crucial micronutrients like magnesium, calcium,

This technology is **TAAT1 validated**.

Gender assessment

Problem

This technology on rice addresses low micronutrient content in Sub-Saharan Africa. It promotes sustainable agriculture, aligning with goals for food security and poverty reduction. To integrate this technology,

- Inform farmers, assess micronutrient deficiencies, formulate application plans, and provide resources.
- Estimate fertilizer and sprayer quantities, considering delivery costs.
- · Training, communication support, and collaboration with agricultural institutes are crucial for successful implementation.



ROI: \$\$\$ 7-30 %

Scaling reas.
8/9; level of use 8/9

• The technology supplements essential elements

• The nutrients are quickly absorbed through the

can be used in various soil conditions.

• Enhances both grain yield and nutritional value. It

leaves, providing immediate benefits to the plant.

Climate impact

directly to plant leaves,

Solution

Yield increased

40 USD

30-45 USD

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Protective kits per person

Knapsack sprayers with a tank of 20

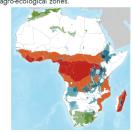
Open source / open access

Where it can be used

Tested & adopted

Adopted Tested

This technology can be used in the colored agro-ecological zones.



Target groups

Farmers

