

MITTI MITRA

Crop & Fertilizer Recommendation Report

Generated: 27/12/2025, 4:24:49 pm

Soil Analysis Summary

Nitrogen (N): 110.8 mg/kg

Phosphorus (P): 47.2 mg/kg

Potassium (K): 196.7 mg/kg

Soil pH: 5.8

Temperature: 24.15°C

Humidity: 83.79%

Soil Moisture: 45%

Recommended Crops

- RICE** - 40.0% confidence
& Top Recommendation
- MANGO - 40.0% confidence
- TOMATO - 40.0% confidence

Estimated Crop Yield

Projected Yield: 3.13 tons/hectare

Based on optimal conditions for this crop in your region.

Fertilizer Recommendation

Recommended Fertilizer:

DAP

Confidence: 54.0%

Why this fertilizer?

- Rice requires high nitrogen for vegetative growth and tillering
- Adequate nitrogen level (110.8 mg/kg) - balanced fertilizer recommended
- Sufficient phosphorus level (47.2 mg/kg)
- Adequate potassium level (196.7 mg/kg)

Application Guidelines

1. Apply fertilizer during early morning or late evening to minimize nutrient loss.
2. Ensure soil has adequate moisture before fertilizer application.
3. Follow recommended dosage based on crop stage and field size.
4. Monitor crop response and adjust application as needed.
5. Maintain proper spacing and avoid over-application.

General Farming Instructions

Preparation Phase:

- Clear the field of previous crop residues.
- Deep ploughing is recommended to kill soil-borne pathogens.

Sowing Phase:

- Use high-quality certified seeds.
- Treat seeds with fungicides before sowing if necessary.

Water Management:

- Avoid water logging.
- Critical stages for irrigation: Germination, Tillering, Flowering.

Important Notes

- This recommendation is based on current soil analysis and AI predictions.
- Soil conditions may vary across different parts of the field.
- Consider conducting soil tests periodically for best results.
- Weather conditions and crop stage should be considered during application.

Disclaimer: This recommendation is advisory and based on available sensor data and AI models. Please consult with a local agronomist or agricultural expert before making final decisions. MITTI MITRA is not responsible for any crop or financial losses.