

# MITTI MITRA

## Crop & Fertilizer Recommendation Report

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### Soil Analysis Summary

Nitrogen (N): 49.3 mg/kg  
Phosphorus (P): 43 mg/kg  
Potassium (K): 53.9 mg/kg  
Soil pH: 7.7  
Temperature: 21.8°C  
Humidity: 83.03%  
Soil Moisture: 45%

### Recommended Crops

1. **MUSKMELON** - 43.0% confidence  
& Top Recommendation
2. MUNGBEAN - 18.0% confidence
3. PAPAYA - 14.0% confidence

### Fertilizer Recommendation

Recommended Fertilizer:  
**DAP**

Confidence: 53.0%

#### Why this fertilizer?

- Fertilizer optimized for muskmelon nutrient requirements
- Sufficient phosphorus level (43.0 mg/kg)
- Adequate potassium level (53.9 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.

### 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.