



KRISHIMITRA Crop Management Plan

AI-Powered Agricultural Solutions

Farmer Profile Summary

Location: chennai
Soil Type: sandy
Farm Size: 25.0 acres
Preferred Crop: rice
Previous Crop: wheat
Budget: INR mid

Crop Recommendation

- Crop: Rice
- Variety: Ponni or ADT 43
- Suitability: Rice is suitable for Chennai's climate and sandy soil

Soil Preparation Guidelines

- Tillage: 2-3 tillage operations to loosen the soil
- Leveling: Level the field to ensure uniform water distribution
- Manuring: Apply 10 tons/ha of farm yard manure (FYM) or compost

Sowing Plan

- Season: Samba season (July-October) or Kuruva season (June-July)
- Sowing Date: 15th June or 15th July
- Seed Rate: 40 kg/ha
- Spacing: 20 cm x 20 cm

Fertilizer Schedule

- Basal Dose:
 - Urea: 60 kg/ha
 - Di-Ammonium Phosphate: 30 kg/ha



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- Potash: 30 kg/ha
- Top Dressing:
 - Urea: 30 kg/ha at 42 days after transplanting

Pest Management Strategy

- Chemical Control:
 - Herbicide: Apply Pretilachlor 50 EC at 1 liter/ha as pre-emergent herbicide
 - Insecticide: Apply Carbaryl 50 WP at 1 kg/ha to control leaf folder and stem borer
- Organic Control:
 - Use Neem Oil: Apply neem oil at 5 ml/liter to control pests
 - Use Trichoderma: Apply Trichoderma viride at 2 kg/ha to control diseases

Disease Control Measures

- Chemical Control:
 - Fungicide: Apply Mancozeb 75 WP at 1 kg/ha to control blast disease
- Organic Control:
 - Use Trichoderma: Apply Trichoderma viride at 2 kg/ha to control diseases

Irrigation Plan

- Water Requirement: 1200 mm/season
- Irrigation Schedule: Irrigate at 3-4 days interval during vegetative stage and 7-10 days interval during reproductive stage

Harvest Planning

- Maturity Days: 120-130 days
- Harvest Date: 15th October or 15th November
- Yield: 6-7 tons/ha



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Market Analysis

- Market Price: INR 15000-20000/ton
- Best Selling Period: October-December

Risk Assessment

- Weather Risk: High risk of drought and flooding
- Pest Risk: High risk of leaf folder and stem borer
- Market Risk: Medium risk of price fluctuation

Insurance Options

- Crop Insurance: Pradhan Mantri Fasal Bima Yojana (PMFBY)
- Premium Estimate: INR 1000-2000/ha

Financial Projections (INR)

- Cost Of Production: INR 40000-50000/ha
- Revenue: INR 90000-140000/ha
- Profit: INR 50000-90000/ha