

# Crop Fertilizer Recommendation Report

## Optimized Fertilizer Requirements

Farmer: user

ID: 2

Date: 9/6/2025

### Soil & Location Information

Soil Type:	Red Yellow Podzolic	District:	Badulla
Soil pH:	6	Agro-ecological Zone:	IU3d
Nitrogen:	120 ppm	Season:	Maha
Phosphorus:	80 ppm	Land Area:	2 hectares
Potassium:	100 ppm		

### AI Crop Recommendation

**Best Match: Carrot**

Confidence: 85%

### Fertilizer Requirements - Carrot

**Seeding Method: Direct seeding - no nursery stage**

#### Field Fertilizer

Fertilizer Requirements	Rate per hectare	Purpose	Total needed for your land
Urea	110 kg (55 kg basal + 55 kg top dressed)	Nitrogen	220.0 kg
Ammonium Sulphate	230--250 kg	Alternative N + S	460.0 - 500.0 kg
TSP	100 kg	Phosphorus	200.0 kg
SSP	200 kg	Phosphorus + sulfur	400.0 kg
SOP (preferred)	75 kg	Potassium	150.0 kg
MOP	75 kg	Potassium	150.0 kg
Compost / FYM	15--20 tons	Organic matter	30.0 - 40.0 tons
Dolomite (optional)	1--1.5 tons	pH correction + Mg	2.0 - 2.0 tons

## Management Tips

- Carrot: Deep, well-drained soil
- Carrot: Avoid fresh manure

