== 🌾 Crop Recommendations by Season ==

➡️ Kharif (Monsoon: June to September):

- Paddy (Rice)

- Maize

- Bajra (Pearl Millet)

- Groundnut

- Soybean

- Cotton

➡️ Rabi (Winter: October to February):

- Wheat

- Mustard

- Barley

- Chickpea (Chana)

- Green Peas

➡️ Zaid (Summer: March to May):

- Watermelon

- Muskmelon

- Cucumber

- Sunflower

- Okra (Ladyfinger)

== 🧪 Soil Types & Crop Suitability ==

🟤 Black Soil: Best for Cotton, Soybean, and Sorghum.

🟠 Red Soil: Groundnut, Millets, and Pulses grow well here.

🟢 Alluvial Soil: Rice, Wheat, Sugarcane, and Vegetables thrive in this soil.

⚪ Sandy Soil: Good for Watermelon, Groundnut, and Mustard.

🔴 Acidic Soil: Apply lime before sowing. Avoid sensitive crops.

== 🐛 Pest & Disease Control ==

🪲 Aphids on Brinjal: Use garlic + chili + neem water spray.

🪰 Fruit Flies on Tomato: Use yellow sticky traps and neem spray weekly.

🐜 Whiteflies: Use soap water spray (5ml detergent in 1 liter water).

🌱 Powdery Mildew: Apply Sulfur dust or cow urine-based spray.

🍂 Leaf Curl Virus: Remove infected leaves. Use Imidacloprid pesticide carefully.

== 🧴 Organic/Natural Remedies ==

🌿 Neem Oil Spray:

Mix 5ml neem oil + 1ml liquid soap + 1 liter water. Use every 7–10 days.

🌶️ Chili-Garlic Insecticide:

Blend 10 green chilies + 5 garlic cloves, soak overnight, filter, spray with water.

🐄 Panchagavya Spray:

Organic mixture made from cow urine, cow dung, ghee, curd, and milk. Boosts plant immunity.

== 🧪 Fertilizer Advice ==

🌾 Paddy: Use NPK in 100:50:50 ratio (kg/hectare).

🌻 Mustard: DAP (18:46:0) is effective during early growth.

🌽 Maize: Apply Urea in two doses – 50% during sowing, 50% after 20 days.

🧂 Acidic Soil: Apply Lime or Dolomite to neutralize pH.

🟤 Low Potassium: Use MOP (Muriate of Potash) @50kg/acre.

== ☁️ Weather-Based Tips ==

🌧️ Heavy Rain:

- Avoid sowing during extreme rain.

- Use raised beds for vegetables.

- Spray fungicide to prevent root rot.

☀️ Heat Waves:

- Provide mulching with straw or leaves.

- Water crops early morning or late evening.

❄️ Winter Frost:

- Use smoke or sprinklers at night to reduce frost damage.

- Cover sensitive crops with old cloth or nets.

== 🏪 Sample Mandi Prices (for reference only) ==

Tomato: ₹25/kg

Onion: ₹30/kg

Potato: ₹20/kg

Wheat: ₹22/kg

Groundnut: ₹55/kg

Paddy: ₹18/kg

Cotton: ₹70/kg

== 💬 Multilingual Example Questions ==

“Which crop to grow in monsoon?”

“मुझे टमाटर की फसल पर कीट नियंत्रण उपाय बताइए।”

“ಅಗಸ್ಟ್ನಲ್ಲಿ ಯಾವ ಬೆಳೆ ಬೆಳೆಸಬಹುದು?”

“Best fertilizer for red soil?”

“பசுமை எளிமையான பூச்சி மருந்துகள் என்ன?”