

# Ensuring a Sustainable, Cost-Effective and Nutrient-Rich Fodder Solution for Dairy Farmers

prompt<sup>®</sup>  
**FODDER  
EASY**

Hydroponic fodder system



# Current Landscape and Challenges

## Green Fodder Shortage

India faces a 35.6% deficit in green fodder due to urbanization, shrinking pasturelands, and changing land use. Additionally, growing ethanol production further reduces fodder availability, making farmers dependent on costly commercial feed

## Rising Cost of Cattle Feed

Silage, dry fodder, and grain-based feed prices continue to surge, increasing dairy farming costs. Dependence on external suppliers also leads to price fluctuations, making expense management challenging.

## Water Scarcity

Traditional fodder cultivation demands large amounts of water, making it unsustainable in drought-prone areas. Climate change further worsens water shortages, increasing farmers' reliance on external fodder sources.

## Unpredictable Climate & Weather

Erratic rainfall, droughts, and rising temperatures impact fodder production and livestock nutrition. This leads to lower milk yield, fertility issues, and higher veterinary expenses.

## Land Constraints

Smallholder farmers with 2-10 cows often lack the land to grow fodder. Rapid urbanization and shrinking agricultural spaces further increase dependence on expensive alternatives.

## Poor Nutritional Value in Traditional Feed

Many farmers rely on low-quality dry fodder, which lacks essential nutrients. This results in lower milk yield, fertility problems, and weakened immunity, escalating veterinary costs.

## Introducing prompt<sup>®</sup> **FODDER EASY**

### Hydroponic fodder system

The Hydroponics Fodder System is a soil-less, automated solution for year-round green fodder production, using 90% less water and minimal land. It employs the Nutrient Film Technique (NFT) for optimal growth in 7-10 days. With a space-efficient design and low maintenance, it enhances cattle nutrition, boosts milk yield, and reduces feed costs, ensuring sustainable dairy farming.



## Key Features:



Soil-less NFT  
Hydroponics Technology



Rapid Growth  
Cycle (7-10 Days)



90% Water  
Savings



Modular & Scalable  
System



Low Maintenance &  
Minimal Labor



Customizable for  
Various Seeds



Works in Natural  
Ventilation



Energy-Efficient &  
Solar-Compatible

## Key Benefits:

The Fodder Easy System addresses farming challenges while providing significant economic, environmental, and productivity benefits. Here's how it enhances dairy farming operations:



Boosts Milk Yield  
& Quality



Reduces Feed  
Costs



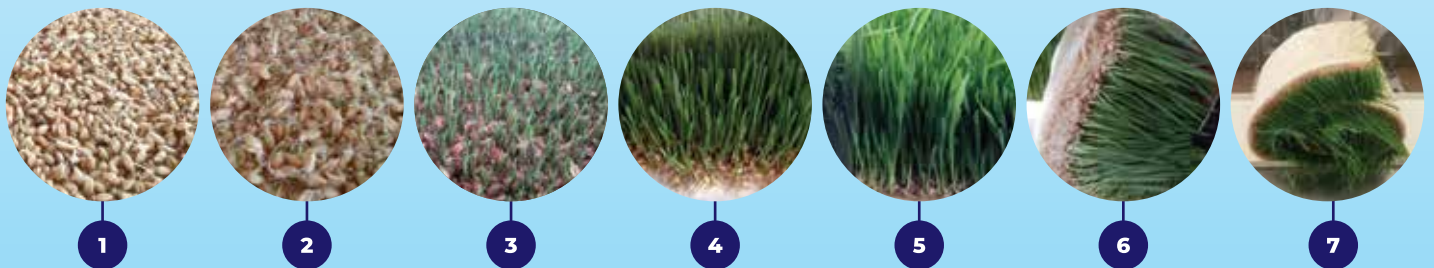
Increases Farm  
Sustainability



# Technical Specifications:

Model Name:	i.e. (5-2 fodder System) Without LED
Daily Fodder Production:	Up to 50 kg/day (Green Fodder like Maize/Wheat/Barley)
System Dimensions (LWH):	2 m x 1.3 m x 1.66 m
Tray Size:	200 cm x 28 cm x 3.5 cm
Tray Quantity:	20 trays (7-day rotation assumed for daily output)
Total Tray Area & Unit Area:	~11.2 m <sup>2</sup> (0.56 m <sup>2</sup> x 20 trays), up to 100 Sq.Feet/unit
Structure Type:	Sloped tray rack system for drainage & air circulation
Accessories Included:	Water Pump, Digital Timer, Water Tank, Seed Sprouting Bag (57x80 cm)
Power Consumption:	80W water pump
Lighting:	None (suitable for natural light under shade/Net house setup)
Water Consumption:	100 liters/day
Temperature Range:	10-45°C Degree Centigrade
Humidity Requirement:	60-90 %
Seeding Requirement:	2-3 kg/tray/day
System Type:	Automated
Installation Time:	1 hour
Mobility:	Portable/Movable
Manpower Requirement:	1 hour / day
Maintenance:	Daily cleaning of trays and water refilling, weekly cleaning of system ideal

## 7 Days Growth Cycle of Green Feed



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