

# THE SUSTAINABLE CASTOR INITIATIVE

**PRAGATI** 

**Updated Results** February 2025



### INTRODUCTION

The Pragati Initiative

### WHAT?

### **Enabling Sustainable castor crop production by:**

- → Using good agricultural practices to increase yield and farmer income
- → Efficiently using water resources and Maintaining soil fertility
- → Driving adoption of good waste management practices
- → Enabling better health and safety practices, and respecting human rights



### WHO?

Members of the Pragati Initiative

- → Arkema, a global leader in specialty chemicals and advanced materials
- → **BASF**, the world's leading chemical company
- → Jayant Agro-Organics Ltd., a pioneer in castor oil based chemicals in India
- → **Solidaridad**, an international civil society organization

### WHERE?

# The Pragati initiative is focused in Gujarat, where most of the castor crop is grown.

### WHEN?

The Pragati Initiative was launched in 2016





TOP 4
Uses for Castor oil





**POLYMERS** 







700,000



The number of castor bean farmers in India

800,000



The number of hectares of land dedicated to castor farming in India

47%

Of the weight of castor bean is captured as castor oil. The remainder is generally repurposed as a fertilizer



Farmers typically harvest castor pods **at least 5 times** per year 120 to 210 days after planting

**TOP 2** 

Perceived sustainability advantages of castor beans

- → Naturally drought resistant
- → Does not compete with food chain for humans or animals

Products derived from castor oil are often celebrated for their bio-based origin and their low carbon footprint

### **CASTOR OIL & DERIVATIVES END-USE MARKETS**

### **COSMETICS & PERSONAL CARE**



- → Perfume
- → Lipstick
- → Shampoos
- → Emulsifiers
- → Deodorants

### **PLASTICS & RUBBER**



- → Plastic films
- → Adhesives
- → Plasticizers
- → Surfactants
- → Coupling agents

### **PHARMACEUTICALS**



- → Antifungals
- → Bactericides
- → Emollients
- → Emulsifiers
- → Encapsulants
- → Laxatives

### **INKS, PAINTS & ADHESIVES**



- → Inks
- → Plasticizers for coatings
- → Varnishes
- → Adhesive removers
- > Lacquers
- → Solvents

### **BIO-POLYMERS**



- → Polyamide 11
- → Polyamide 610, 1010, 1012
- → Polyols for urethanes
- → Automotive ; Electronic Apparel markets

### **GREASES & LUBRICANTS**



- → High performance lubricants
   (aircraft & racing cars lubricants)
- → Hydraulic fluids
- → Fuel additives
- → Corrosion inhibitors

### **TEXTILE & PAPER**



- → Textile finishing materials
- → Dyeing aids
- → Synthetic fibers
- → Synthetic detergents
- → Flypapers
- → Defoamer

### **OTHER**



- Food packaging
- → Flavorings
- → Surfactants (food)
- → Organic fertilizers
- → Bio-fuels



# A CODE WITH 76 AUDITABLE CRITERIA BASED UPON 11 PRINCIPLES





→ www.castorsuccess.org

- Governance & Management System
- Seed & Planting Materials
- 3 Soil & Water Management
- 4 Nutrition Management
- 5 Ecological Balance & Integrated Pest Management (IPM)
- **o** Safe Use of Crop Protection Products
- Workers Welfare & Safety
- Waste & Pollution Management
- 9 Bio-Diversity Management
- Energy Management
- Post Harvest Management Practices





- → Improved Living Standards
- → Increased Farmer Income
- → No Child Labor or Forced Labor
- → Respect for the Environment and Natural Resources
- → Gender Equality
- → Improved Safety



### **Over 8,000 Farmers**

have been trained, audited, and certified

Over 9,000 hectares are now being regularly farmed in accordance with the SuCCESS sustainable castor code (see www.castorsuccess.org) - more than 36,000 hectares cumulatively; Pragati farmers are increasing their land dedicated to castor farming as it is seen as a profitable crop

Farmers from more than 100 villages in North Gujarat now participate in villages the program

57%

Year 8 yield is 57% higher than that published by the local government for this region.

This year, more than 428 capacitybuilding training sessions were held with farmers

lead farmers have been identified and trained to guide certified farmer groups

Approx.

safety kits and 5,500 crop protection product boxes have been distributed free of charge





More than 100 medical camps organized in all project villages this year successfully conducted health monitoring of 6,000+ project farmers, 2,300+ nonproject farmers, workers, and their families, of which 50% were women

As compared to local averages, water consumption has been lowered by approx. 33% in the demo plots where accurate measurement and controls are in place



## **PRAGATI**

For more information on the sustainable castor initiative please contact info@castorsuccess.org

→ www.castorsuccess.org







