

# THE SUSTAINABLE CASTOR INITIATIVE

**PRAGATI** 

**Updated Results**September 2023



### 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

- ightarrow **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



**POLYMERS** 







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700,000

The number of castor bean farmers in India

800,000



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

**TOP 2** 

Perceived sustainability advantages of castor beans

47%

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

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

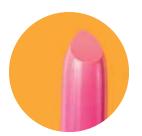


Farmers typically harvest castor pods **at least 5 times** per year 120 to 210 days after planting

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 PLASTICS & RUBBER**



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

### **PHARMACEUTICALS**



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



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

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



- → Inks
- $\rightarrow$  Plasticizers for coatings
- → Varnishes
- → Adhesive removers
- → Lacquers
- → Solvents

### **BIO-POLYMERS**



- → Polyamide 11
- → Polyamide 610, 1010, 1012
- → Polyols for urethanes
- → Automotive ; Electronics 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



- MOST CASTOR OIL IS EXPORTED
- THE MARKET IS TRULY GLOBAL

# 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)
- 6 Safe Use of Crop Protection Products
- Workers Welfare & Safety
- 8 Waste & Pollution Management
- 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 7,000 Farmers**

have been trained, audited, and certified

More than **7,000 hectares** are now being regularly farmed in accordance with the SuCCESS sustainable castor code (see www.castorsuccess.org) - more than 27,000 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

the program

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

for this region.

with farmers.

Approx.

villages

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

36%

380



medical camps organized in all project villages this year successfully monitoring of 8,500+ farmers, workers, and their family members, of which 65% were farmers enrolled in the Pragati program

Year 7 yield is 36% higher than that

published by the local government

More than 380 capacity-building

training sessions were held this year



As compared to the previous year, water consumption has been lowered by approx. 21% in the demo plots where accurate measurement and control are in place



## **PRAGATI**

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

→ www.castorsuccess.org







