



**SEA Castor Model Farm
2017-18**

Way Forward

Sustainability

for

Farmer and Industry

8th July, 2018, JAIPUR

SEA Profile

- Formed in **1963** to foster the development & growth of the Solvent Extraction Industry in India
- Largest and Premier Association in the Vegetable Oil Sector in India – over **800 members** across the country
- First Association in Vegetable Oil & Oilseed sector to receive ISO 9001 Certification in India (2004), now upgrade to **ISO 9001 : 2015**
- Recognized as **NGO** by Ministry of Agriculture and **TPO** by Ministry of Commerce, Government of India.
- ITC, Geneva (United Nation) has recognised SEA as the **Best & Successful Model Association.**



BURNING PROBLEM BEFORE THE NATION

- **Rural distress in the Farm Sector for agri. Price.**
- **Less yield/productivity at Farm level**

SHORT TERM SOLUTIONS

- **Upward revision of MSP to keep farmer happy.**
- **Raising the duty on imported competing products to offer sustainable prices to farmer.**

LONG TERM SOLUTION

- **Improving the yield/productivity of all farm produce, to overall increase farmer's income & enough resources for the Industry.**



Back Ground of the Project

Stagnant Productivity and loss of interest of farmer to produce.

Average yield per Ha.

Gujarat - 1500-2000 Kgs.

Rajasthan – 850 Kgs.

A.P./Telangana – 575 Kgs.

National – 1500 Kgs.



Project Objectives

- **To Make castor seed farming more sustainable – Farmer & Industry.**
- **To educate farmers on modern farm practices to enhance yield, reduce the cost and raise the income per Ha.**
- **Target yield - 4000 kgs./Ha.**



Methodology

- **Selecting farm experts to carry out the project.**
- **Selecting area and farmers to carry out the project.**
- **Selection of type of Sowing seeds in consultation of experts and farmers.**
- **Selection of Vendors : Seeds, fertilizer, productivity boosters, soil fertility enhancers.**



Methodology

- **Selecting area and time for farm gatherings to demonstrate and guide farmers of surrounding areas on ideal farming practices for castor cultivation.**
- **Publishing guidance book on best farm practices for castor seed cultivation.**
- **Organizing market yard meetings with Farmers to propagate best farm practices in Castor cultivation**



CONCEPT of SWAS(BREATHE)

S - SOIL, W – WATER, A - AIR, S - SUN

The concept is to put all the above factors to optimum use. Soil preparation - pre-sowing, Use minimal water by way of drip, optimum distance in planting of seeds for better aeration and use of sunlight for better growth.



Execution

- **SEA approved budget of Rs. 35,00,000.**
- **Total area covered 160 Ha., 140 Farmers and 6 coordinators.**
- **Weekly farm visit by Agri. Experts and Farmer motivators to review the progress and guide the farmers.**
- **Submission of Weekly Report for follow up action.**

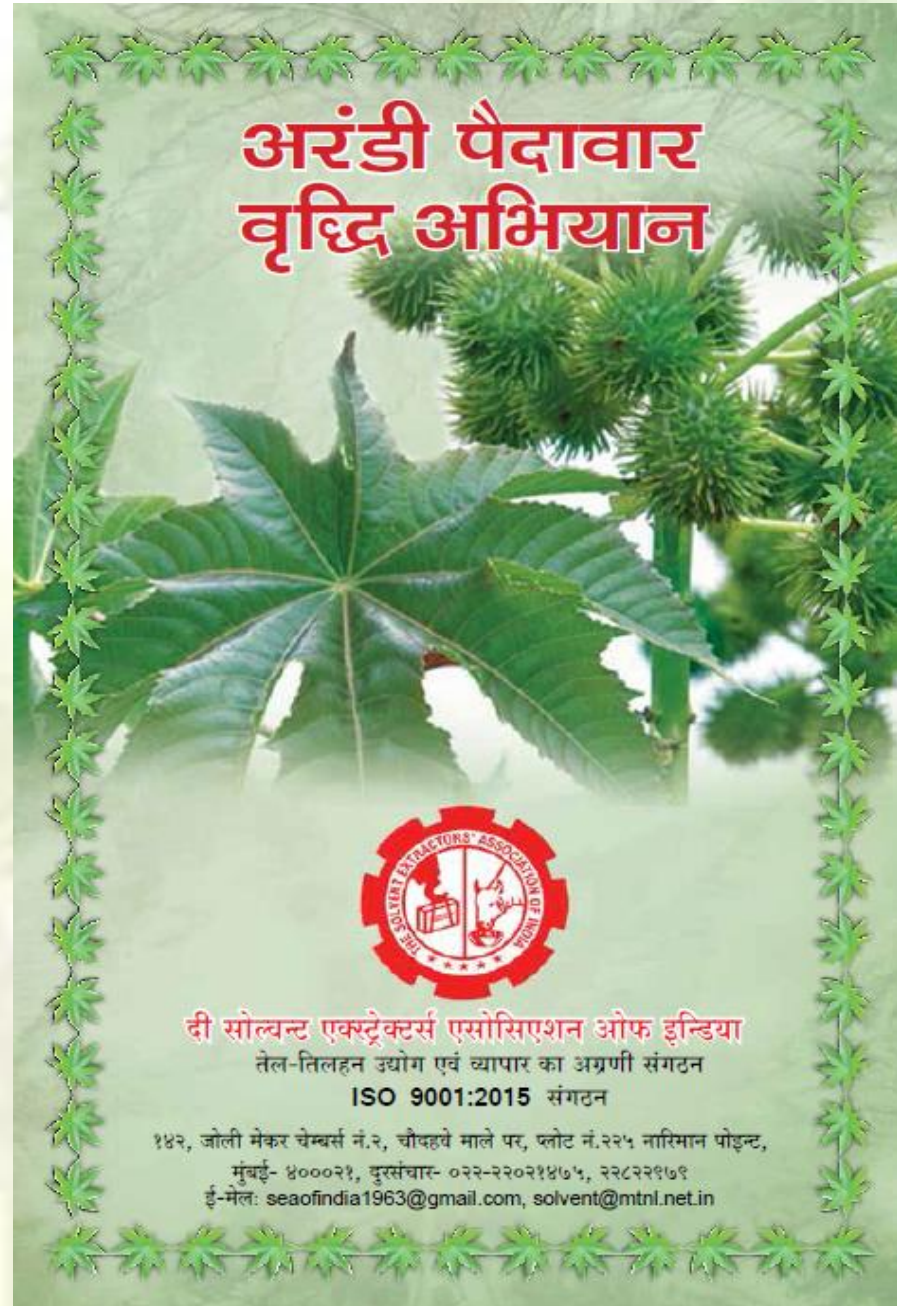


Execution

- **Farmers were provided with free of cost kits containing Seeds, Fertilizer , other agri. Inputs and cost saving guidance by the experts.**
- **Sowing seeds were sourced from SDAU. (Nodal agency GOI.,for Castor seed research)**
- **Few Model farms selected for comparing other variety of seeds .**
- **Few Farms selected for inter cropping.**
- **Appointment of MART Global Independent Auditor to assess the outcome.**



**SEA Published
and distributed
10,000
booklets citing
good
Agronomist
practices for
higher
productivity of
Castor seeds.**



Improved Productivity of Castor Seeds

The district-wise variation for Intervention Group vis-à-vis Control Group

District	Average Productivity – Intervention Group (Kg/Ha.)	Average Productivity – Control Group (Kg/Ha.)	% Increase/ Decrease over Control Group
Junagadh	5446.43	3125	+ 75.28%
Banaskantha	4656.14	2908	+ 60.11%
Sabarkantha	3580.75	1789	+ 100.15%
Overall	4516.55	2503.80	+ 80.38%

The average yield of Gujarat State was 2066 Kgs./Ha.



More number of Pickings

District	Average Pickings Model Farm	Average Pickings w/o Intervention	% Increase/ Decrease due to Intervention
Junagadh	9.66	7.00	+ 38.00%
Banaskantha	7.42	5.00	+ 48.40%
Sabarkantha	6.00	4.33	+ 38.56%
Overall	7.60	4.75	+ 60.00%

The number of pickings for Intervention group without project support from SEA is 4.75 times as against 7.6 times under the project, leading to an increase of 60% due to the Model Castor Farm Intervention.



Outcome

- **Inter cropping gave improved yield for castor seed and additional income from other crop to the farmer.**
- **The overall income was tripled per Ha. basis on inter cropping.**
- **Higher productivity per Ha. has insulated the farmer from price fluctuation and sustained their interest to continue growing Castor seed.**



**REPORT
INDEPENDENT EVALUATION
OF
SEA MODEL CASTOR FARMS
2017-18**



***It's not Castor Cultivation,
it's about Reaping Gold!***

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MART Global's Assessment

- **As a result of SEA's intervention through Model Castor Farm Project, the productivity of castor seeds through model farms, as compared to non-model farms, has showed an increase of 80% to 100% over other farms in the same village area.**
- **The inputs provided by SEA under the Model Castor Farm Project, other than certified seeds, has been hailed by the farmers as one of the most essential inputs resulting in overall improvement in soil health and fertility.**



Recognition- Appreciation

NITI Aayog,(formerly known as Planning Commission of India) working under the Chairmanship of Prime Minister of India, recognized the efforts made by SEA for increasing the productivity of Castor seed and doubling the farmer's income.

NITI Aayog, invited SEA to make presentation on the Project at Delhi on 17th May, while appreciating, suggested to scale up this project and cover apart from Gujarat, states of Rajasthan and Telangana.



Way Forward

With the satisfactory experience, SEA is planning to extend this project this year covering three districts in North Gujarat, one in Saurashtra, one in Kutch and one district each in Rajasthan and Telangana and plans to establish over 250 Model farms at a budget of Rs. 65,00,000.



Way Forward

Appropriate support from Stake holders needed for upscaling the project for Doubling the farmers income to sustain their interest to grow Castor seed and sustainable supply for the industry.



Acknowledgements
Stakeholder's support
2017-18

M/s Royal Castor .

M/s Acme Hardesty.

M/s Adani Wilmar.

M/s Gokul Agro.

M/s Jayant Agro.

M/s N. K. Proteins

M/s Girnar Industries.

M/s Agrilink Asia



Lessons for Mustard Industry

Mustard productivity can also be increased from 1000kg/ha to much higher level provided all stakeholders including industry, farmer and the Government join the hands.

SEA is willing to take up similar project for Rape-Mustard productivity in ensuing Rabi season provided all stakeholders extend financial support and volunteer their organizations to involve fully in the project.



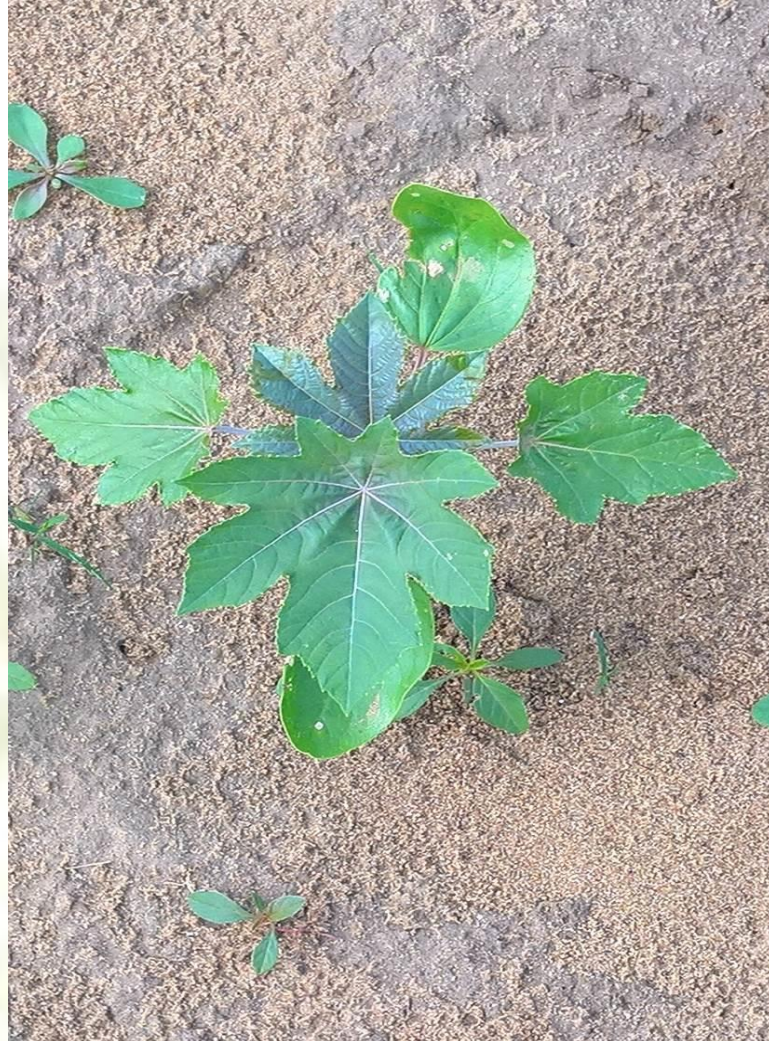
Project Through Pictures



FARM INPUTS OFFERED BY SEA



THE FIRST STEP



DISTANCING MAPPED



SEA – MODEL CASTOR FARM PROJECT

Govindbhai Ivnagar



Stage set for healthy crop



SEA – MODEL CASTOR FARM PROJECT



Plant Progress



SEA – MODEL CASTOR FARM PROJECT



Model farm – Dr. B. V. Mehta, Bhavin Chhatrala, Haresh Vyas & Chirag Bhuva inspecting the growth



SEA – MODEL CASTOR FARM PROJECT

Dhirajbhai Mohanbhai Gajera (Sukhpur)



Inter cropping with Groundnut



SEA – MODEL CASTOR FARM PROJECT



Inter cropping with Cotton



DISTANCING POST HARVESTING OF 1st CROP



SEA – MODEL CASTOR FARM PROJECT



Blooming time

SEA – MODEL CASTOR FARM PROJECT



Model Farm in Sabarkantha



SEA – MODEL CASTOR FARM PROJECT



Healthy Farm at Bhuj



SEA – MODEL CASTOR FARM PROJECT



Farmer with Ghruhalaxmi with SEA's team



SEA – MODEL CASTOR FARM PROJECT



Model Farm at Dhoraji



SEA – MODEL CASTOR FARM PROJECT



Excellent growth at a model farm in Banaskantha



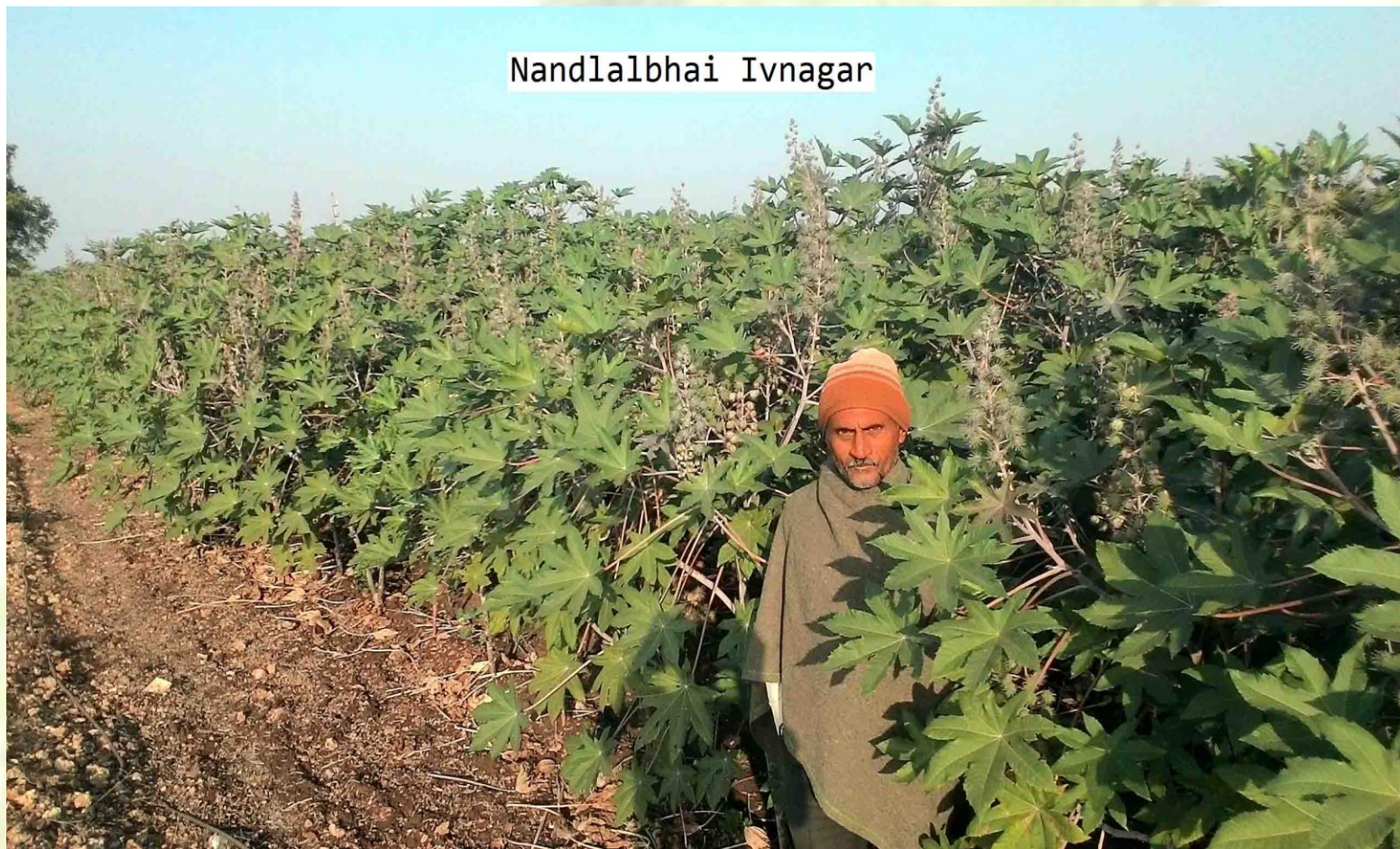
SEA – MODEL CASTOR FARM PROJECT



Excellent growth at a model farm in Patan

SEA – MODEL CASTOR FARM PROJECT

Nandlalbhai Ivnagar



Find me !!

SEA – MODEL CASTOR FARM PROJECT



Lord of the Jungle



SEA – MODEL CASTOR FARM PROJECT



Happy to be here



SEA – MODEL CASTOR FARM PROJECT



Healthy growth of castor plants and a happy man



SEA – MODEL CASTOR FARM PROJECT

Maheshbhai Ivnagar



Bumper growth



SEA – MODEL CASTOR FARM PROJECT



Growing and Growing



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Keen Observer at Work



SEA – MODEL CASTOR FARM PROJECT



Happy Team



SEA – MODEL CASTOR FARM PROJECT



Blessed



SEA – MODEL CASTOR FARM PROJECT



Try to beat me

SEA – MODEL CASTOR FARM PROJECT



Fully loaded. Thanks



SEA – MODEL CASTOR FARM PROJECT



Model farm demo and briefing

SEA – MODEL CASTOR FARM PROJECT



Model farm demo and briefing



SEA – MODEL CASTOR FARM PROJECT



All ears at Farmers meet



SEA – MODEL CASTOR FARM PROJECT



“Best practices in Castor seed cultivation” Book release



SEA – MODEL CASTOR FARM PROJECT



Office bearers at a press conference highlighting the project



SEA – MODEL CASTOR FARM PROJECT



Bumper harvest

SEA – MODEL CASTOR FARM PROJECT

Maheshbhai Ivnagar



Bumper harvest

SEA – MODEL CASTOR FARM PROJECT



No better place to be in. Thanks



SEA – MODEL CASTOR FARM PROJECT



Nandlalbhai Ivnagar

Bumper harvest



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Kirtibhai Rupavati

Bumper harvest. Destination market



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Thanks Giving at Aarvalli



SEA – MODEL CASTOR FARM PROJECT

ઘ સોલ્વન્ટ એક્સ્ટ્રેક્ટર્સ એસોસીએશન ઓફ ઇન્ડિયા

આયોજીત

એરંડા ઉત્પાદકતા વૃધ્ધિ અભિયાન



અમને એરંડા પાકના વાવેતર તરફ
લઇ જવા અને મોડેલ ફાર્મમાં
સ્થાન આપવા બદલ અમે
ઘ સોલ્વન્ટ એક્સ્ટ્રેક્ટર્સ એસોસીએશન
ઓફ ઇન્ડિયાના આભારી છીએ.

વધુ માહિતી માટે સંપર્ક
૮૧૪૦૧૫૩૯૮૧

Thankful Family



SEA – MODEL CASTOR FARM PROJECT



Thanks - Bumper harvest



SEA – MODEL CASTOR FARM PROJECT



Women Power



SEA – MODEL CASTOR FARM PROJECT



Bumper harvest. Thanks



Award & Reward for High Castor Productivity



7,800 Kgs/ha.

Shri Ghemarbhai Bhikhabhai Judal, Banaskantha



6,600 Kgs/ha

Shri Bhavinkumar Narendrabhai Bhalani, Dhoraji



6,000 Kgs/ha

Shri Kantilal Kuberbhai Parmar, Banaskantha



4,000 Kgs/ha

Shri Tulsibhai Dalsania (Hemiben), Jamnagar



Productivity of Castor seed doubled.

**SEA Model farms showing
way for doubling income of farmers and
sustainable supply for the industry.**

**It's not Castor cultivation !!
It's about Reaping Gold !!!**



Thank
You

**Mr. Haresh Vyas – Project in Charge
and
Dr. B. V. Mehta - Executive Director**

The Solvent Extractors' Association of India

A Premier Association of Vegetable Oil Industry & Trade in India

ISO 9001:2015 Organisation

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