CONTRACT FARMING & AGRI PROCESSING ROAD TO DOUBLING FARMERS' INCOME

S MAKHIJA

STRATEGIC ADVISOR

Jain Irrigation Systems Limited

EARLIER POLICY

FARM TO FORK—SUPPLY DRIVEN

NEW PARADIGM

FORK TO FARM—DEMAND DRIVEN



CONTRACT FARMING IS ESSENTIALLY DEMAND DRIVEN. EFFECTIVE SUPPLY CHAIN MAKES IT SUSTAIANBLE. ANCHOR CUSTOMER & AGRI PROCESSING MAKES IT MORE SUSTAINABLE.



FOR SUSTAINABLE CONTRACT FARMING IT IS NECESSARY TO FORM RELATIONSHIPS THAT ARE LESS FORMAL (LEGAL) AND ARE BASED ON MUTUAL TRUST.

A PATRIACHAL/FIDUCIARY RELATIONSHIP THAT KEEPS FARMERS INTEREST CENTRAL WILL SURVIVE.



CONTRACT FARMING HAS TO BE NURTURED. ALL RELATED LINKAGES HAVE TO BE DEVELOPED & CLOSELY SUPERVISED.



Jain Integrated Model



Unique lotal Solution Onered to Farmers

AT JAIN IRRIGATION SYSTEMS Ltd CROP SPECIFIC CHALLENGES ARE IDENTIFIED AND

SOLUTIONS INNOVATED. CROP MANAGEMENT SUPPORT WITH JAIN GAP PROVIDED TO FARMERS.



PROGRESS IN IRRIGATION TECHNOLOGY



IRRIGATE THE CROP, NOT THE LAND WITH DRIP IRRIGATION



AVOID WASTING WATER PRODUCE MORE WITH LESS





BETTER SEEDS & PLANTING MATERIALS



ADOPTION OF TECHNOLOGY

 30,000 acres covered already in the last 3 years since TC Pomegranate Project was launched.



SOLUTIONS FOR CROP PRODUCTION - BANANA

- Challenge: The traditional variety Basrai- in the banana bowl of Maharashtra (Jalgaon dist.) is low yielding, with poor fruit quality and short shelf life.
- Solution: A high yielding variety , Grand Naine with Internationally acceptable fruit quality and longer shelf life was introduced and virus free planting material made acceptable to banana growers.
- Result and impact : Very high adoption of the variety and the improved agronomy that were extended to the grower.





BANANA

Immediate solution:

- Introduction of new variety
- Provide quality, disease free, virus free planting material.
- Training and extension hi-tech cultivation practices.

Long Term solution:

• Developing disease resistance through RNAi



BANANA TECHNOLOGY ADOPTION









ONION - CHANGE IN AGRONOMY





IMPROVEMENTS IN ONION





Onion Productivity Increase In Farmers Field Due To Technological Interventions

*Data from farmer's fields from Maharashtra

Onion Yield in Farmer's field*		
Before technology intervention (t/ac)	Range of yield due to Intervention (t/ac)	Average yield after intervention (t/ac)
6	09-14	10



MANGO

Challenges

- Long gestation period for yield and income realization
- Alternate year bearing habit in some commercially known varieties
- Low yield

Solutions

• Ultra high density Plantation with Canopy management and improved Agronomy

Result

- Fruiting in 3 rd year
- Regular bearing
- Very high and stable yields from 4th year.



TRAINING PRIMARY BRANCHES as PART OF MANAGING CANOPY ARCHITECTURE





ULTRA HIGH DENSITY PLANTING



2 YEAR 10 MONTH OLD PLANTATION

EARLY FRUTING (3rd year); HIGH YIELD (9 t/ac in 4th year); LOW GESTATION PERIOD





POMEGRANATE

Challenge

- Devastation of plantation due to bacterial blight.
- Total crop loss to growers.

Solution

- Provide quality, disease free planting material.
- Training and extension on better orchard hygiene.



POMEGRANATE



BLIGHT INFECTED FRUIT



DISEASE FREE TC GENERATED PLANT





Sustainable Agro-commercial Finance Ltd. सस्टेनेबल ॲग्रो-कमर्शियल फायनान्स लि.

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ROAD MAP TO DOUBLING FARMERS INCOME:

- 1. FARMER EMPOWERMENT WITH SCIENCE, TECHNOLOGY, CAPITAL.
- 2. INCREASED PRODUCTIVITY. CREATE VALUE CHAIN TO CAPTURE VALUE.
- 3. TARGET INCREASED PROPSERITY & ALL INCLUSIVE GROWTH.





Small Ideas! Big Revolutions®

THANK YOU