



Kutch Fodder Sustainability Program



Kutch Nav Nirman
ABHIYAN



A Programme initiated by
Kutch Nav Nirman Abhiyan

in association with

**Kutch Corporate Social
Responsibility Forum**





The Richest Grassland in Asia



Land use Classification

- **Agricultural Land : 18.00 Lac Acre**
- **Grassland : 20.26 Lac Acre**
- **Rainfed Land : 12.85 Lac Acre**
- **Waste Land : 16.92 Lac Acre**



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Livestock Population of Kutch : 18,96,491

Live Stock in Panjrapole – Appx.1,00,000



Most Drought Prone Zone!!!

Average Rainfall : 350 mm Only

Avg. Rainy Days : 13 Only

Drought Occurrence : Every Alternate Year



Farmers and Livestock suffer the Most



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**Crores of Rupees donated by way of
Charity in panjrapolse and tons of grass is
being imported from other Districts**



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Only Sustainable Solution for Panjrapoles and Farmers... Fodder Cultivation



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FODDER SUSTAINABILITY AND CSR

1. For the cattle of panrapoles -

OPTION - 1

The CAPAX and OPEX avenues - for production of fodder on the land owned by Panjrapoles,

OPTION -2

Supporting by way of providing Hydroponics machine (CAPEX) and OPEX for the same

2. For the cattle of Farmers –

Supporting by way of providing SEEDS(free of cost) for fodder to the farmers

1. FOR THE CATTLE OF PANRAPOLES

Total number of panjrapoles in the District (appx.)	100
Total land area occupied by panjrapole (appx.)	4000 Acre
Total number of cattle in panjrapole (appx.)	1,00,000

*Source - **KUTCH FODDER,FRUIT & FOREST DEVELOPMENT TRUST**

REQUIREMENT OF FODDER IN PANJRAPPOLES

Particulars	Appx.
Total No of cattle	1,00,000
Requirement of fodder/day/cattle	10 kg
Days	250
Total requirement of fodder/year/cattle	2500 kg
Total requirement of fodder/year (for appx. 1,00,000 cattle of panrapoles)	25,00,00,000 kg



PROJECTED PRODUCTION OF GREEN FODDER ON PANJRAPOLE LAND

Particular	1 Acre	4000 Acre
Average Green Fodder Production / Year	37,000 kg	14,80,00,000 kg
Will meet the requirement for number of cattle /year (Appx.)	15 cattle	60000 cattle

THE CAPAX AND OPEX AVENUES - FOR PRODUCTION OF FODDER ON THE LAND OWNED BY PANJRAPOLES

× CAPEX

Particular	5 Acre
New Bore well, Motor, Cable, Construction of pump room, PGVCL connection , laying of pipeline network etc.	Rs. 3,50,000/-

OPEX (for 1 year for 5 Acre)

Sr. No.	Project Activity	Qty.	Unit	Unit Rate	Total Amount (Rs)
1	Identification of Eligible Panjrapole (5 Acre Each)	1	No	125.00	125.00
2	Support for Ploughing (Summer)	5	Acre	300.00	1500.00
3	Seed Support to the Farmer (30 Kg / Acre)	150	Kg	90.00	13500.00
4	Data Collection & Monitoring & Operating Exp.				300.00
Sub Total : 1					15425.00
	Administration Cost				
1	Human Resource Cost	5.0%	of Sub Total : 1		770.00
2	Transport & Travel for the Project	2.5%	of Sub Total : 1		385.00
3	Admin Cost	1.5%	of Sub Total : 1		155.00
Sub Total : 2					1310.00
Grand Total					16735.00



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SUPPORTING BY WAY OF PROVIDING HYDROPONICS MACHINE (CAPEX)

Green Grass-Fodder Production Sysytem	Rs./Unit
The GreenFeedTech Hydroponic System is completely designed, developed, manufactured and installation	21,80,000.00
Appx. System Area	600 sq.ft.
Specifications	
A. Output approx 1000Kgs/Day	
B. Operating Cycle b. 365 Days 24 Hours	
C. Fodder Growing Chamber	
D. Trays made of Aluminum/HDPE/Plastic and Fiber	
E. Complete Refrigeration	
F. PLC Control System for optimum growing conditions	
G. Humidity Control	
H. Control for Atmospheric Gases	
I. Artificial Light Control	
J. Temperature Control	
K. Water control	
L. Air Handling Unit for treatment for bacteria and fungi prevention	
M. Water Handling Unit	
N. Water recycling System	
Transportation and Installation charges at site	1,96,000.00
CST Extra	
Total Rs.	23,76,000.00

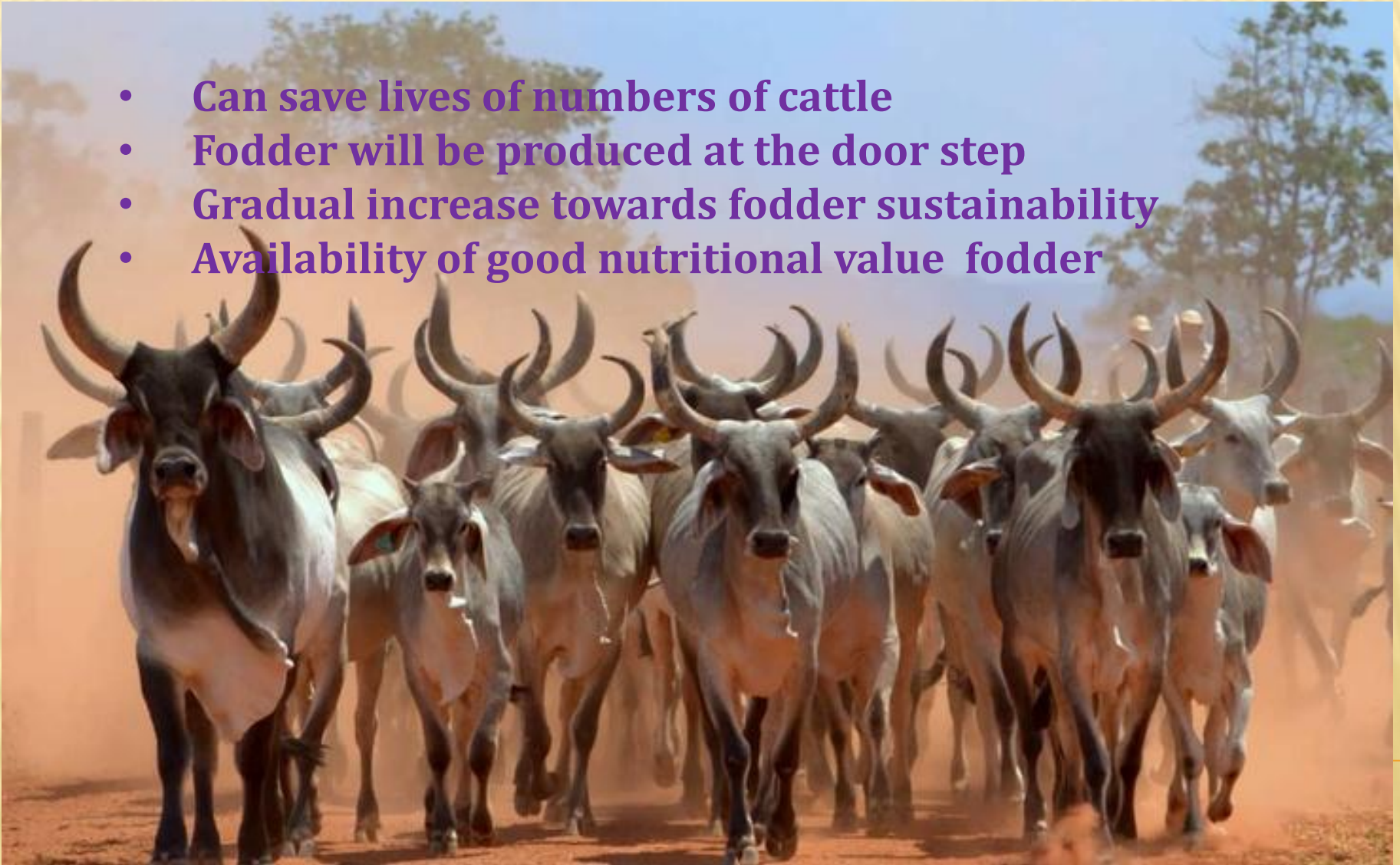
OPEX

Approx. Costing of Greentech Maize Fodder

Detail		Rs.	
Maize Seed Cost @ 15Rs	240 Kg	3,600.00	Per Day
Labor 4to 5 Hr for 2 person	Rs 100/Person	200.00	Per Day
Power Cost 15 units* per day	Rs 6 / Unit	90.00	Per Day
Total Cost		3,890.00	Per Day
Production of Maize fodder Everyday		584000.00	Per Year
(We Consider 6.5 to 7.5 times weight gain)		1560 to 1800	Kg per day
Cost of per Kg fresh green fodder		2.49 to 2.16	Rs / Kg

Program Benefits

- Can save lives of numbers of cattle
- Fodder will be produced at the door step
- Gradual increase towards fodder sustainability
- Availability of good nutritional value fodder



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2. CONTRIBUTION FOR THE FODDER SECURITY FOR FARMERS –

* SUPPORTING BY WAY OF PROVIDING SEEDS(FREE OF COST) FOR FODDER TO THE FARMERS

Seeds cost (purchase, grading, sorting, packing in 20kgs)	Averagely Rs. 60-70 /- per kg
Production of fodder /acre	37000 kg
seeds required/acre	30 kg
Cost of fodder seeds/acre	Rs. 1800-2100

Program Benefits

- More area will come under Fodder cultivation
- Fodder will be produced at the door step
- Gradual increase towards fodder sustainability
- Availability of good nutritional value fodder
- Increase in Milk Production



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CONTRIBUTION FROM INDUSTRY BY WAY OF CSR

- ✘ For Fodder cultivation on land of panjrapole for 5years

	5 Acres	4000 Acres
Capex (appx. Rs.)	3,50,000/-	28,00,00,000/-
Opex (appx. Rs.)	61900/-	5,00,00,000/-
Will meet the requirement of no of cattles /year	75 cattle	60000 cattle

CONTRIBUTION FROM INDUSTRY BY WAY OF CSR

- ✘ Supporting by way of providing Hydroponics machine

	1 machine	250 machines
Capex (appx. Rs.)	21,80,000.00	54,50,00,000
Opex for 5 years(appx. Rs.)	70,99,250.00	1,77,48,12,500
Will meet the requirement of no of cattle /year	233	60000



CONTRIBUTION FROM INDUSTRY BY WAY OF CSR

- ✘ Supporting by way of providing SEEDS (free of cost) for fodder to the farmers (for 5 acres for 5 years)

Seeds required	150 kg
Cost (appx. Rs.)	52500.00
Will meet the requirement of no of cattles /year	75 cattle

Fodder Revolution Awaits...



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**Thank You
For Your Attention...**

Prepared By



Parjanya Ecology Pvt. Ltd.