



Gujarat Drip Irrigation Approach

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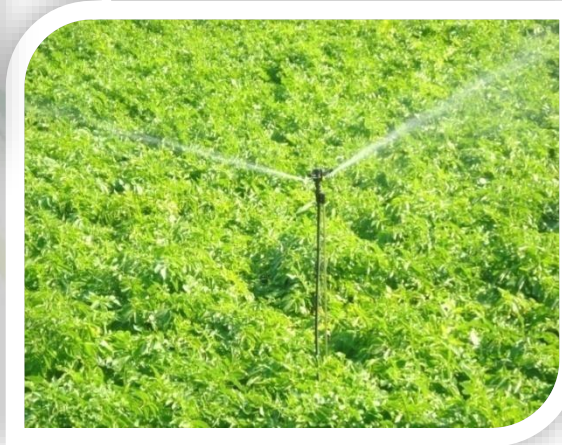
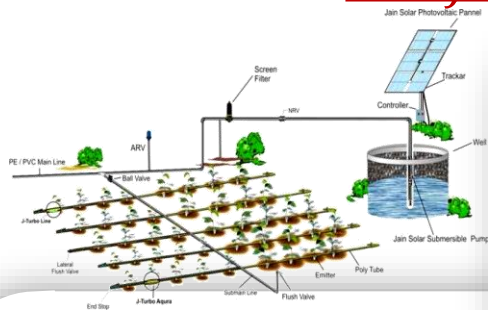
Sugoor RK. Gujarat Drip Irrigation Approach. *Climate Change*, 2016, 2(8), 363-414



National Seminar on “Climate Change, Water Resource Management and Livelihood Adaptation”



Presentation on Gujarat Drip Irrigation Approach



Ahmedabad
Date: 07/05/2016
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Climate Smart Agriculture



- Climate-smart agriculture, forestry and fisheries (CSA), as defined and presented by FAO at the Hague Conference on Agriculture, Food Security and Climate Change in 2010, contributes to the achievement of sustainable development goals. It integrates the three dimensions of sustainable development (economic, social and environmental) by jointly addressing food security and climate challenges. It is composed of three main pillars:
 - sustainably increasing agricultural productivity and incomes;
 - adapting and building resilience to climate change;
 - reducing and/or removing greenhouse gases emissions, where possible.



Cont...



What is CSA?

CLIMATE SMART
Agriculture

Sustainably increases
productivity and
income

National Food Security
and Development Goals

Strengthens resilience
to climate change and
variability

Reduce agriculture's
contribution to climate
change

- CSA is an approach to developing the technical, policy and investment conditions to achieve sustainable agricultural development for food security under climate change.
- The magnitude, immediacy and broad scope of the effects of climate change on agricultural systems create a compelling need to ensure comprehensive integration of these effects into national agricultural planning, investments and programs.
- The CSA approach is designed to identify and operationalize sustainable agricultural development within the explicit parameters of climate change.

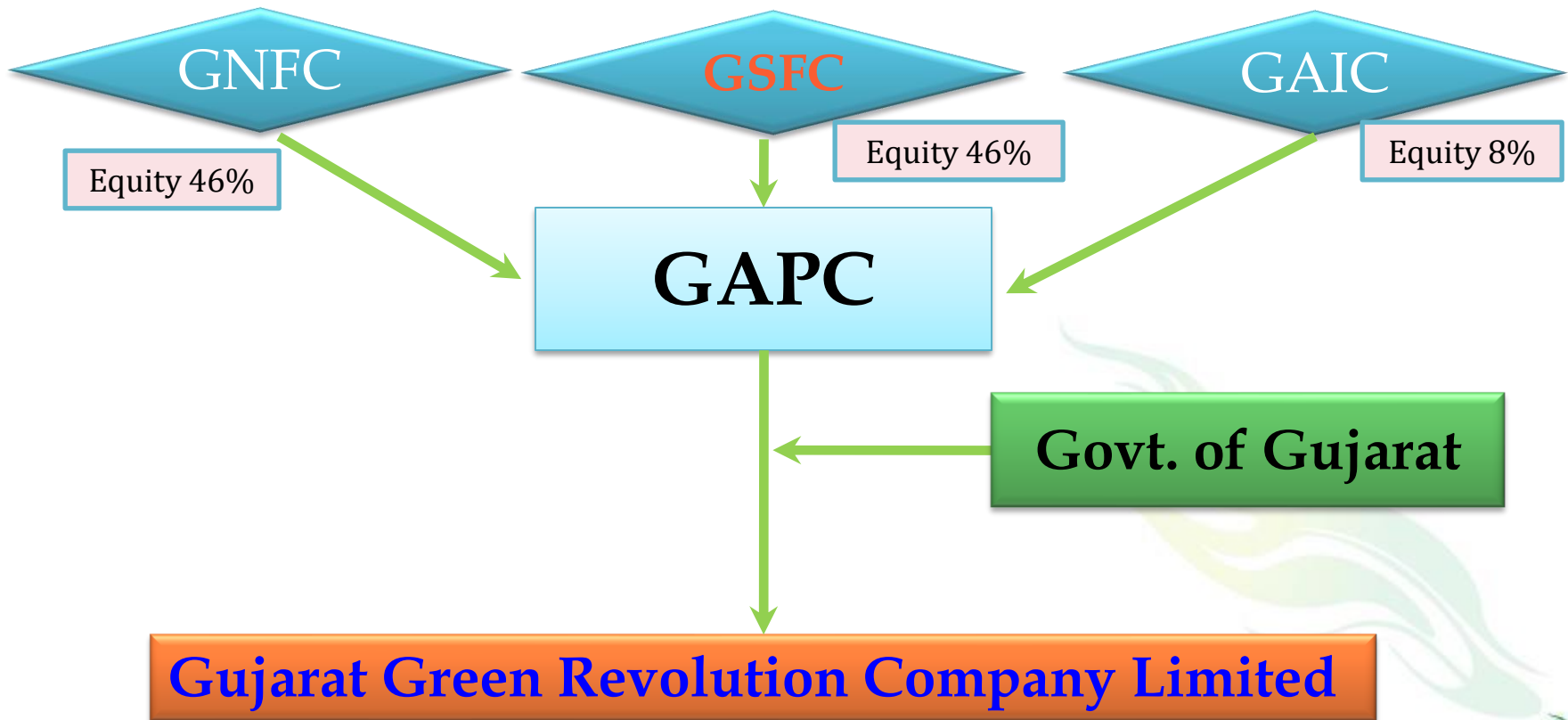
Reason for Gujarat State Intervention in MIS Scheme



- Subsidy for Micro Irrigation System (MIS) was available under **different schemes and sub-schemes**.
- **Varying subsidy assistance norms** and implemented by **multiple Govt. Depts.** creating confusion among farmers.
- No integrated approach, it was in piecemeal.
- Confusion among the farmers at ground level.
- Taking a long time to disperse the subsidy.
- Progress of MIS was very minimal.
- The Government wanted to put all efforts into an **integrated approach in uniform** manner to remove **anomalies**.
- Integrate all available funds in one head to utilize **efficiently** and extend benefits to **more and more farmers** of the State.



State Intervention led to: Formation of GGRC in Vibrant Gujarat 2005, announced by the Hon'able CM of Gujarat



Best practices followed by GGRC



A unique GR was issued by the GoG in 2005 different from other States, wherein any farmer can go for

- ✓ Any **area** ; Any **crop** ; Any **type** of Micro Irrigation **System**
- ✓ Choice of **MIS Supplier**

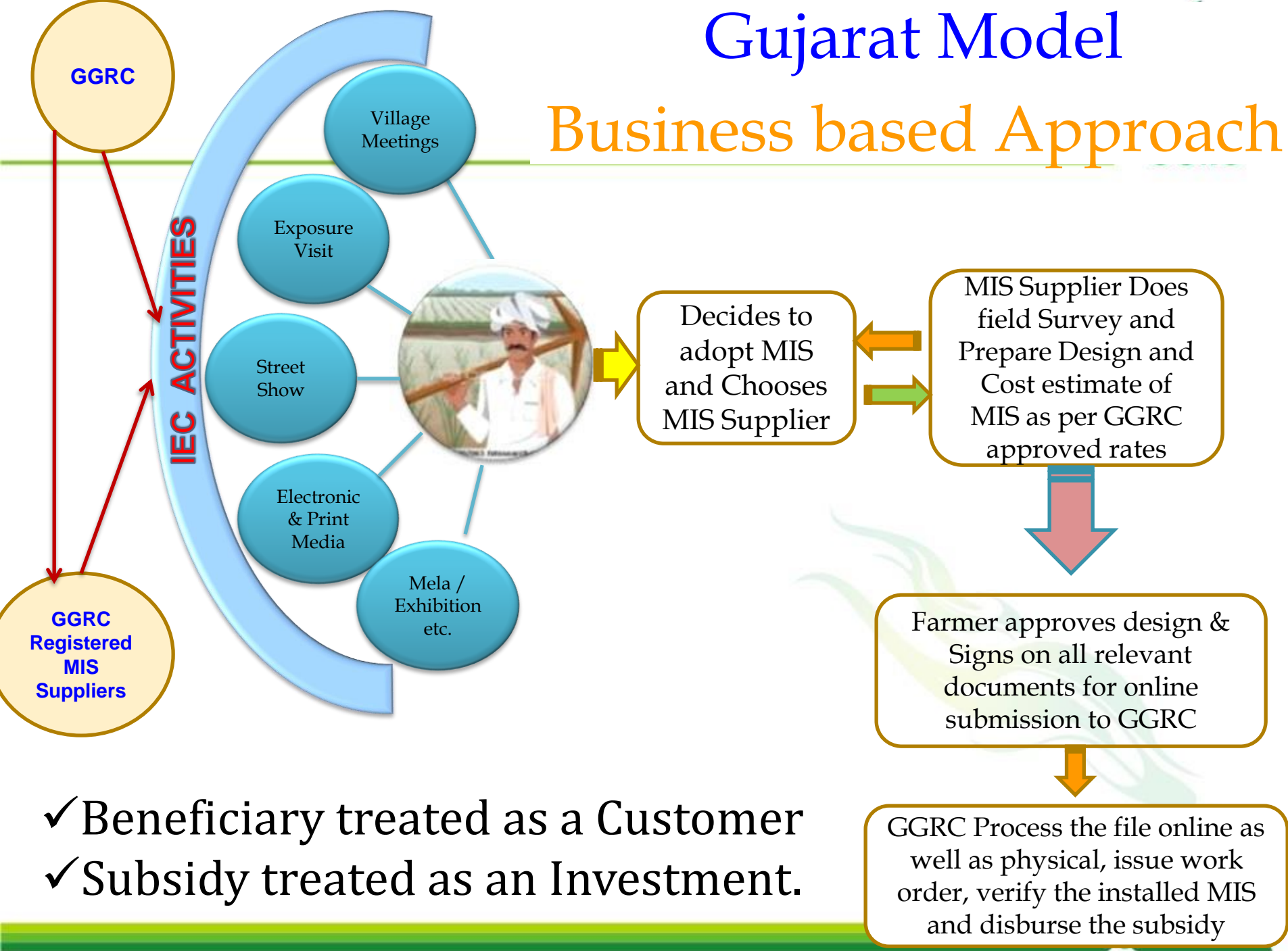
Other features

- ✓ Electricity connection on overriding priority.
- ✓ No subsidy ceiling

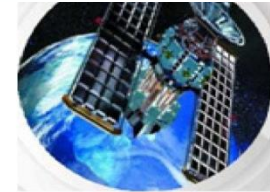
Sr. No	Category of Farmer	Non Dark Zone area	Dark Zone area for 57 talukas
1	General Farmer: Small and Marginal farmer (Landholders of less than 2 hectares)	Up to 60% of MIS Unit Cost or Rs. 70,000/- per hectares, whichever is less	Up to 70% of MIS Unit Cost or Rs. 70,000/- per hectares, whichever is less
2	General Farmer: (Land holders of more than 2 hectares)	Up to 50% of MIS Unit Cost or Rs. 60,000/- per hectares, whichever is less	Up to 60% of MIS Unit Cost or Rs. 60,000/- per hectares, whichever is less
3	SC/ST Farmers	Up to 75% of MIS Unit Cost or Rs. 90,000/- per hectares, whichever is less	Up to 85% of MIS Unit Cost or Rs. 90,000/- per hectares, whichever is less

Gujarat Model

Business based Approach



Gujarat Model of Application Processing at GGRC



Submission of Verification & Trial Run Report Along with Subsidy Release Form for Final Payment

QR Code/GPS based Mobile Application for MIS Installation Verification



Installation of System & Verification by Third Party



Registration of MI Application with Geo-Tagging & Issuance of work order

Submission of Signed TPA & Deposition of Farmers Share

Reconciliation of Farmer's Share & Advance Payment to MIS Supplier



NABCONS observations



The practices and approach followed by GGRC was evaluated by NABARD Consultancy Services (NABCONS) engaged by Govt. of India during the year 2009 and identified **the Best Practices in the Country for implementing MIS Scheme.**

Best Practices identified by
NABCONS



Major IT Intervention for speedy and accurate processing



➤ Incorporation of Barcode System



➤ Biometric System



Thumb / fingerprint Scanner



Webcam



Digital Sign. Pad

For easy retrieval of the data and to track the status / movement of the file for online processing at GGRC.

To ascertain genuiness of the beneficiary farmer and to create database to prevent duplication of applicant.

Scientific way of file Management



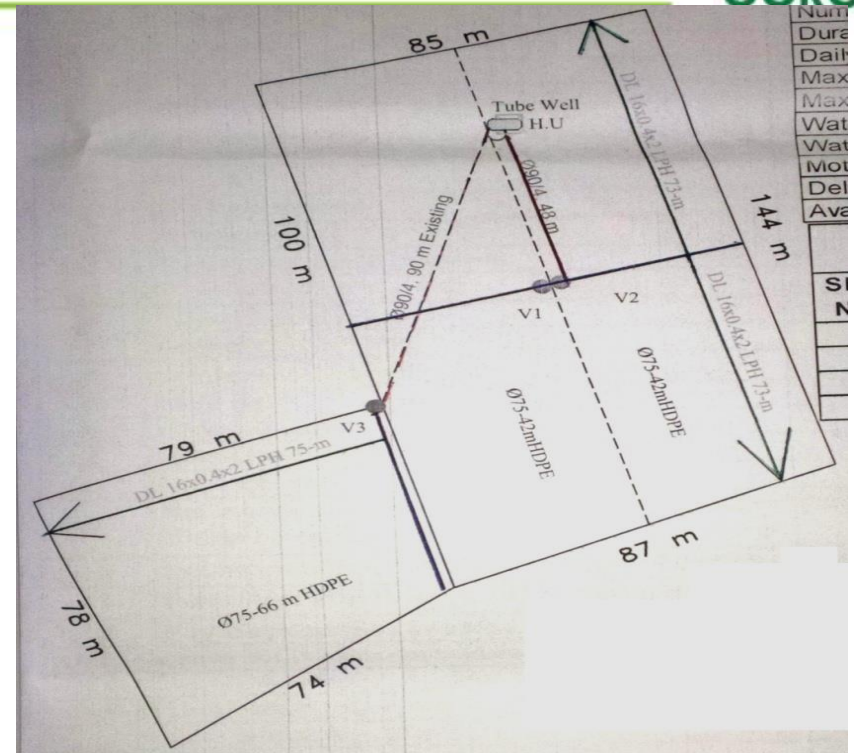
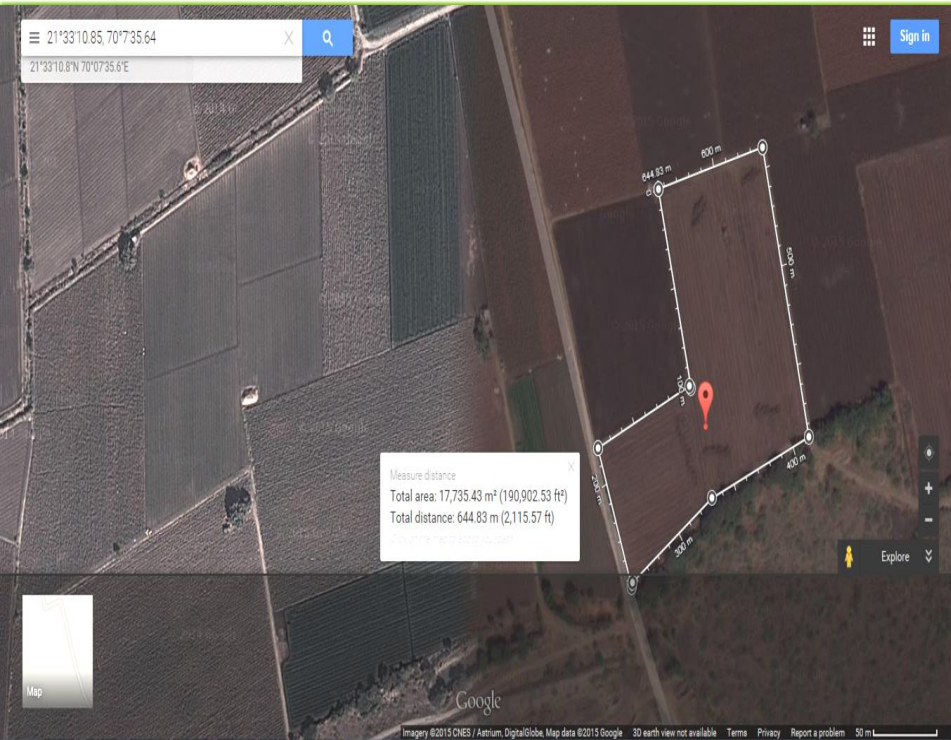
- ✓ Introduction of Colour code system for easy identification of files.
- ✓ GGRC have a 5 years colour code management policy.
- ✓ Each file have unique ID number starting with the corresponding financial year.
- ✓ Location of the each district file has been fixed so that can be traced easily at any time of processing.
- ✓ Annexure number is fixed for each document and is printed on back side of the file for easy reference.
- ✓ Compact Storage System is followed to maintain the files for 10 years.

Colour Code System

Compact Storage System



Geo-fencing based Design and Cost estimate Preparation



Num	
Dura	
Dail	
Max	
Max	
Wat	
Wat	
Mot	
Del	
Ava	
SI	
N	

Use of Geo points (Lat - Long) on Google Map / Bhuvan Map to get real size and shape of the field for preparing design and cost estimate.

Transferring Geo-points as per the shape and size of the field to AUTOCAD for preparing Irrigation System Design



Use of QR Code in Geo-tagging for verification and Monitoring of installation of MIS



- ✓ Third Party Inspection is conducted on every farmers Micro Irrigation System installed on his field by using QR (Quick Response) code System with Geo locations.



QR Code/GPS based Mobile Application for MIS Installation Verification

Geo-tagging

QR Code



A New Initiative of Showing Schematic Diagram through picture to farmer



- ✓ Farmer can understand what MI Component he will be provided by the MIS Supplier and at the time of verification he will count quantity of MI Components comparing with the images provided to them

Drip Irrigation System with
One Filter

Mini Spr. Irrigation System

Drip Irrigation System
Two filters (Hydrocy. F + Disc Filter)



Unique Features responsible for Success of GGRC Model



- I. Simple and Flexible in its Approach
- II. Transparency in its Approach
- III. Effective Quality Monitoring and Assurance System
- IV. Use of IT based application to prepare cost and design and to monitor the installed MIS

Application tracking



V. Basket of Services

- ✓ Maintenance, Warranty and Guarantee of MI Components for **five years**
- ✓ Inbuilt agronomic as well as system maintenance advisory services through **SMS services** SMS Services
- ✓ Inbuilt **insurance** of the MI System as well as farmer's life
- ✓ Effective **Complaint Redressal** System and toll free helpline number
- ✓ Promotion of high nutrient use efficiency - **Water Soluble Fertilizers**

VI. Implementation cost for the Government is nil.

Above all implementation is based on the concept of **PPP Mode** and overall improvement in the quality of the service.

Result of State Effectiveness



Before establishment of GGRC

- The achievement under MIS Scheme was 2.26 lakh hectares with approximate 1.41 lakh beneficiary farmers (From 1991 to 2005).
- Average Annual Achievement was 15,000 ha./year

After establishment of GGRC

- The achievement under MIS Scheme is 13,08,143 hectares with 8,13,499 beneficiary farmers (From 2005 to March-2016)
- Average Annual Achievement is 1.19 lakh ha./year
- Gujarat ranking continuously first since last three years in terms of bringing area under Micro irrigation per annum among various States of India.



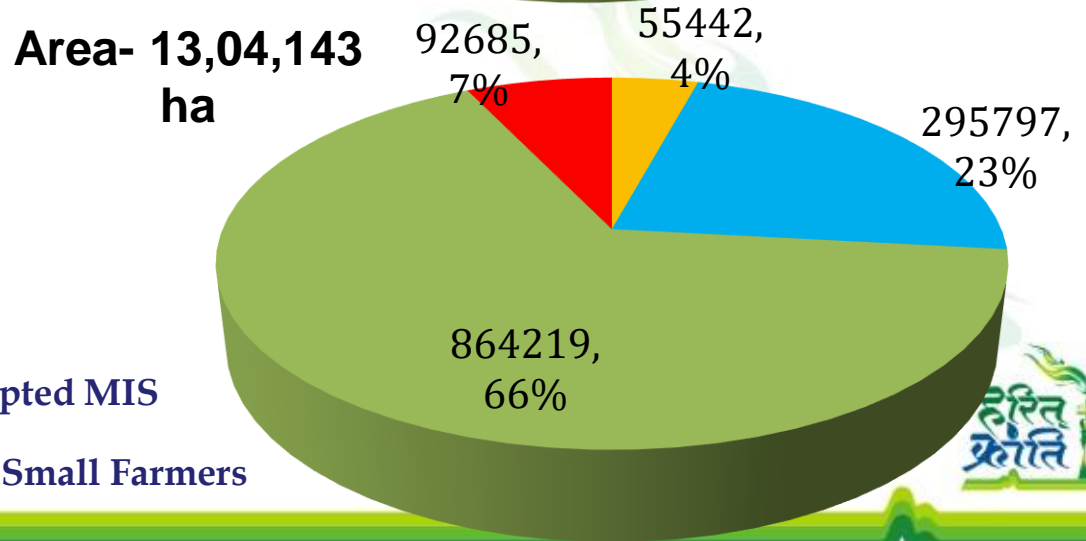
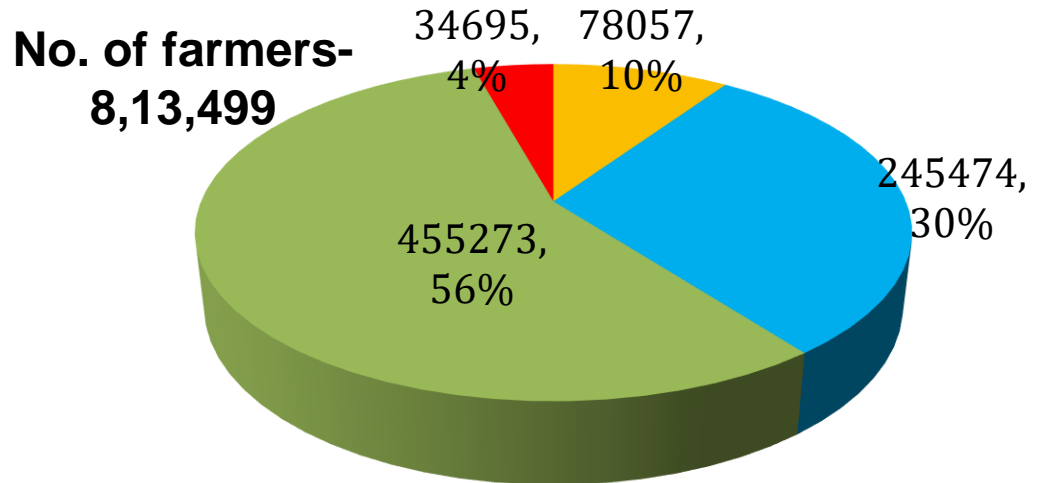
Farmer **category** wise (based on holding size) No. of farmers and area covered under MIS (from May-2005 up to March-16)



Category wise No. of beneficiaries & MIS Area in ha. under MIS:

Classification of Farmers on the basis of land holding in the **State**

- Marginal Farmer (up to 1 Ha.) 5%
- Small Farmer (>1 to ≤ 2Ha.) 16%
- Medium Farmer (>2 to ≤10 Ha.) 65%
- Large Farmer (More than 10 ha.) 14%

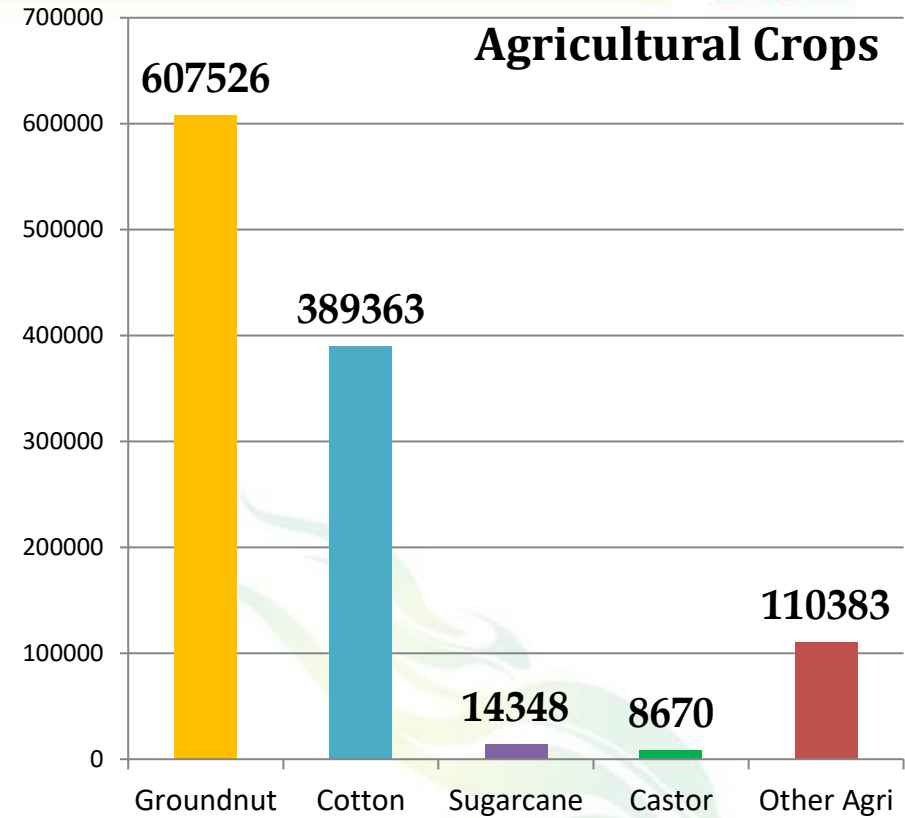
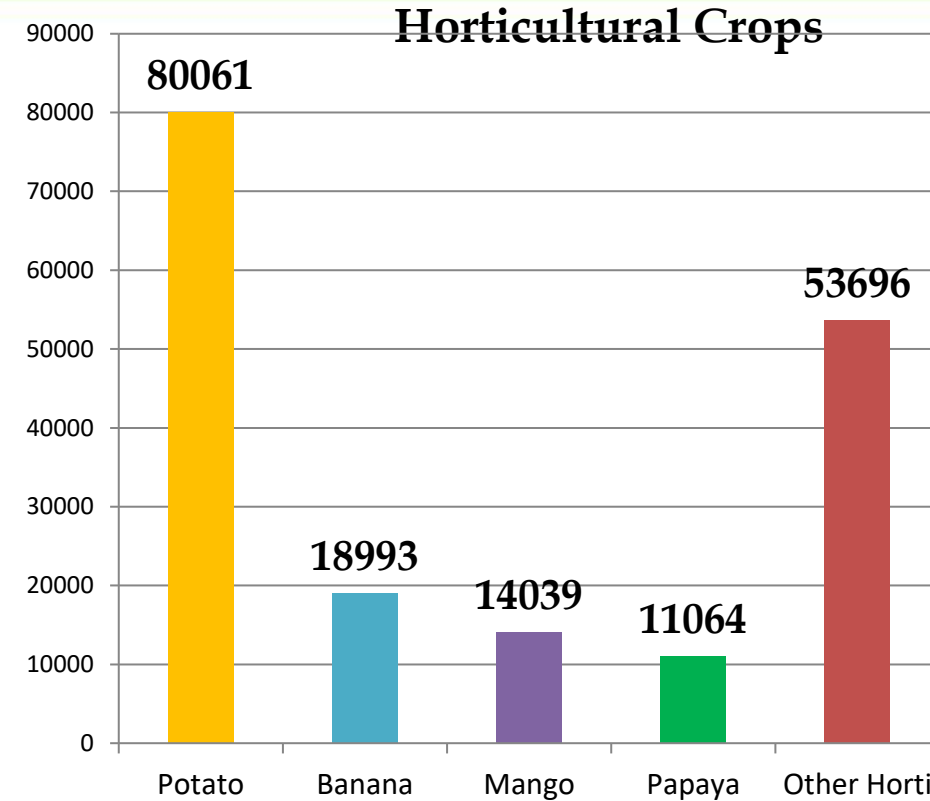


40% Small and Marginal Farmers have adopted MIS

27% of total area is covered by Marginal & Small Farmers



Cumulative Crop wise Progress from May-2005 to March-2016



Total Area under Agricultural Crops is 11,30,289 hectares (86%).

Total Area under Horticultural Crops is 1,77,854 hectares (14%)

Vegetables (26) and Other Horti. Crops (59)

Other Agri. Crops (26)



Socio-Economic Impact Assessment of the Micro Irrigation Scheme - Findings of the AFC



The Agricultural Finance Corporation (GoI) has been commissioned by GGRC to conduct a Socio-Economic Impact Assessment of the MI Scheme on an annual basis.

Sr. No.	Findings of the AFC report	Result (%)
1	Saving in Water	20-48 %
2	Saving in Electricity Cost	10-17%
3	Saving in Labour Cost	30-40%
4	Saving in Fertilizers	11-19%
5	Increase in Crop Yield	20-38%
6	Increase in net return Rs./ ha due to micro irrigation (Based on annualized cost)	17,000/-

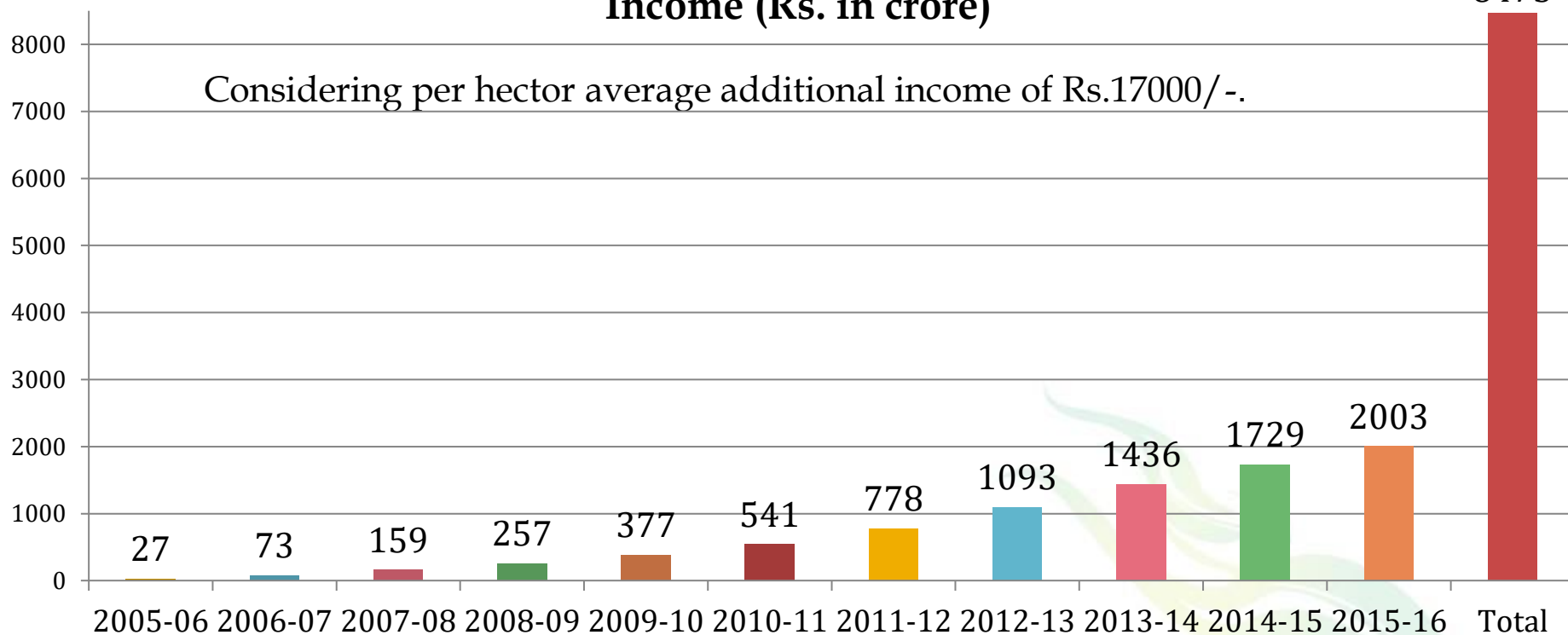
Based on the above findings, the pay back period for the beneficiary farmers and for the Government has been estimated at 2 cropping seasons.





Additional Income to Farmer due to Major State Intervention in MI Scheme

Income (Rs. in crore)



Considering the area covered under micro irrigation during the period 2005-06 to 2015-16; now onwards there will be increase of annual income of 8473 crore among the farmers adopted MIS.

Considering 100% MI System is in use by the farmers who have adopted MIS within last 5 years, and 60% is in use by the farmers who have adopted MI System before 5 years back.

Major contributor for the Agricultural Growth (avg. more than 10%).





Implementation modality for Protected Cultivation Scheme – on Pilot Scale

- ✓ **Area of Operation:** Gujarat State.
- ✓ **Subsidy** – 50% of the Project cost as subsidy and 50% to be borne by the beneficiary.
- ✓ Handholding for one year (mandatory)- subsequently phase out.
- ✓ Structural Design compatible with crop / agro climate – unit size ranging from 250 sq. meter to 2000 sq. meter.
- ✓ Training to the farmers.
- ✓ Market linkages for produce.
- ✓ Operational modality similar to implementation modality of Micro Irrigation Scheme.
- ✓ Type of approved structures:
 - i. Naturally Ventilated Poly House
 - ii. Poly Shade Net House
 - iii. Dome type Shade Net House
 - iv. Flat type Shade Net House



Cost Benefit Analysis Study – Pilot Project on Protected Cultivation



A Success Story:

Cost benefit analysis for the beneficiary farmers who have adopted Naturally Ventilated Poly House under the Pilot Project on Protected Cultivation

GGRC Reg. No.	Name of Farmer	Area under GH (sq. m)	Total Cost (Rs.)	Subsidy @ 50% (Rs.)	Crop Grown	Cost of Cultivation # (Rs.)	Yield (Kg)	Avg. market rate (Rs.) *	Total Income (Rs.)	Net Profit (Rs.)
AND-PC-01	Chandrakantbhai Dahyabhai Patel	1848	1582792	791396	Cucumber	107000	15500	20.61	319455	212455
AND-PC-02	Punambhai Dahyabhai Patel	1848	1582793	791396	Cucumber	103000	17500	20.61	360675	257675

Cost of Cultivation is inclusive of expenditures incurred by farmer for Soil preparation, Seeds, Fertilizers, Pesticides Control and packing of produce and other miscellaneous cost.

The income received is of the period of **3 months only** (during **one crop season** only) which can be **trippled** in a year period.

* Avg. rate considered based on the total income generated out of selling of his produce by farmers.

Based on the above fact, the **pay-back period** for the farmer is estimated at 3-4 cropping seasons **i.e. approx. 1.5 years.**



Promotion of Solar Irrigation Pump with Drip



- Increasing use of Diesel Pumpset to lift water.
- Limited availability of grid.
- Promotion of green energy of source i.e. Solar Pump (3/5 HP) in irrigation.
- The beneficiary farmers will be entitled to avail Central Fin. Assistance (GoI Contribution) of **Rs. 40,500/- per HP for DC pumps** and **Rs. 32,400/- per HP for AC pumps** for Project cost of erection and commissioning of SPV water pump for irrigation on his field



Realizing “**Urja Shakti, Jal Shakti**” with
“**Mahila Shakti**” as per our PM Vision



Promotion and Distribution of Water Soluble Fertilizers (WSF)



- Water-soluble fertilizers are fertilizers that can be dissolved in water and added or leached out of the soil easily. It is easy to control the precise quantity of nutrients application to plants with the help of water soluble fertilizers.
- WSF are high analysis soluble speciality fertilizers. These are available in mono, double and multi nutrient combinations and available in liquid and crystalline forms.
- Water Soluble Fertilizer (WSF) have higher fertilizer use efficiency **45-95%** compared to **traditional fertilizers 20-50%**.
- WSF is highly compatible to use with Micro Irrigation through **fertigation** (application of fertilizer solution along with irrigation water through Micro irrigation to crop plants) **and foliar spray** enhancing further **fertilizer use efficiency up to 95%** as fertilizer is applied directly to root zone in case of Drip Irrigation and on foliage in case of Sprinkler Irrigation System.

Project on Sustainable (Better) Cotton Initiatives in Gujarat



GGRC Ltd.



WWF India



Synergy.....Eco system and
farmers Prosperity



Integration of Drip Irrigation System with **Holiyu** - a Traditional water storage technology



A new Initiative by GGRC to increase the agricultural activities in saline affected areas

Problems faced by the farmers in salinity affected areas of North Gujarat



Summer (Dry Season) - Drought



Deteriorating Soil Quality and Salinity,
Poor Soil Permeability



Water logged condition during
monsoon



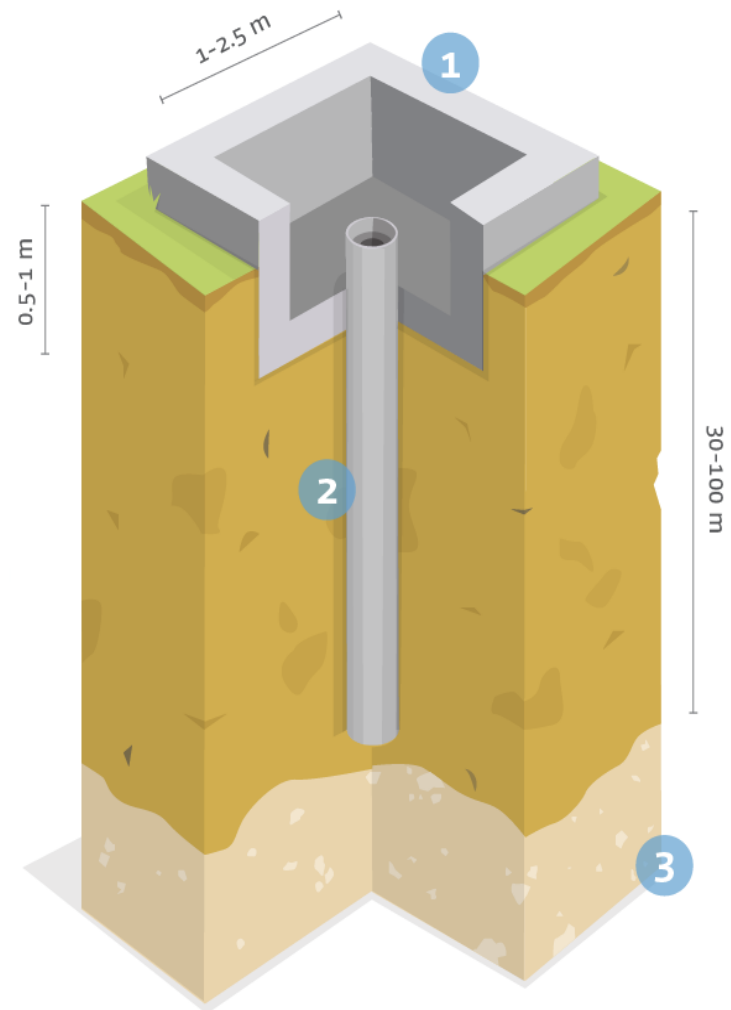
Solution



An **Innovative Technology** that helps to:

- ✓ Prevents water logging condition during monsoon and Stores Rainwater underground (Holiyu) thereby ensuring cultivation of crops during monsoon.
- ✓ With the help of Drip ensuring cultivation crop during rabi thereby increasing agricultural activities in off season.

GGRC under **CSR** has approved **Rs.40.00 lakh** to implement this project by erecting and commissioning 10 Holiyus.



GGRC Consultancy Services



GGRC has implemented successfully their in-house developed IT Business Module (**C-MIMS**) popularly known as Gujarat Model for Micro Irrigation Scheme. Based on this, GGRC has started providing Customised **Enterprise Resource Package** (ERP) for Water Management and Agro Business or any business based project or Scheme in Government or Private Sector. Looking at the wider acceptability of the Module followed by GGRC:

- I. **Sardar Sarovar Narmada Nigam Limited**, Gandhinagar appointed GGRC as a consultant to develop Application based on GGRC module for their **Under Ground Pipeline Sub-minor Scheme**. **Software will be rolled shortly**.
- II. **Govt. of Karnataka and Chhatisgadh**, has approached GGRC as consultant to develop Scheme implementation module. **The matter is at preliminary dialogue stage**.
- III. Scheme implementation module preparation for the **Govt. of Haryana and Rajasthan** is under discussion.



Sardar Krushi Package Conceptualized to promote Agro Services & Products offered by GGRC/GSFC to the farmers under one roof



- ❑ Promotion of Micro Irrigation, Protected cultivation and Solar pumping Scheme, WSF as a part of Sardar Krushi Package:

Culminating Prosperity Through Smart Agriculture

SARDAR KRUSHI PACKAGE

1. Micro Irrigation System
2. Protected cultivation
3. Solar Water Pump
4. Water Soluble Fertilizers
5. Liquid Biofertilizers
6. Improved Seeds
7. Sardar Amin
8. Micro Mix

"Let us nourish the crop by each drop of valuable water"

Smt. Anandiben Patel
Hon' Chief Minister, Gujarat State



Awards and Recognition



- ✓ Awarded with Trend Setter Award by **Gujarat Innovative Society** during April - 2015.
- ✓ Nominated and shortlisted for the **United Nations Public Service Award** during Nov-2014.
- ✓ Nominated for **Prime Minister's Award** for Excellence in Public Administration during the year 2014-15.
- ✓ Nominated for **E-Governance Award** in the category Government to Citizen Project of the Year during 2014-15.
- ✓ Paper on “Micro Irrigation for Higher Productivity” was published and presented during **FAI Annual Seminar 2014**.



Cont...



- ✓ Paper on “Ensuring Food Security through Adopting Smart Agricultural Technology in the light of Climate Change by GGRC in Gujarat, India” was accepted and published in the **DNC Conference**, - 2015, **Dresdan, Germany**.
- ✓ Presentation on “Micro Irrigation in Gujarat: A Case Study of State Effectiveness” has been presented at Anand during **Indian Economic Policy Strategy conference**, Jan-2015 and published on you-tube by National Institute of Public Finance & Policy-DEA, Min. of Finance, Delhi.
- ✓ Presentation on “Gujarat State Experience in implementation of the Micro Irrigation Scheme was made during the workshop on “Micro Irrigation – The Way Forward” organized by **Dept. of Agriculture, GoK at Bangalore**.





Still, a lot to be done to realise
“**Taakat Ek Boond Ki**”



**To achieve per Drop More Crop as per
our Hon'able PM's vision to achieve
more State Effectiveness**





Geo - tagging System



Google Map - Internet Explorer
 http://172.16.30.181/gworksggrc/page/googlemap.aspx

Registration Details:

Reg No: 1415-MSN-659	Name Of Farmer: PATEL RAJNIKANTHAI SOBARAI	Loanee/NonLoanee: LOANEE
MIS System: DRIP	MIS Supplier: NETAFIM IRRIGATION INDIA PVT. LTD.	Source of Application: DARK ZONE
District: MEHSANA	Taluka: BECHRAJI	Village: MODHERA

Latitude And Longitude: 23.589017214955

Google Map - Internet Explorer
 http://172.16.30.181/gworksggrc/page/googlemap.aspx

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Latitude And Longitude: 23.589017214955



QR Code Scanning



Cont...



GREM APP

TRIAL FORM HEADER INFO

This screen is shown after the QR CODE is scanned. It includes the Farm profile i.e. general information regarding the registration no, farmer, supplier and location of the farm.

A screenshot of a mobile application interface. At the top, there is a green header bar with the text "GREM" on the left, a circular "GPS" icon in the center, and a hamburger menu icon on the right. Below the header, the screen displays the following information in a list format:

- Reg No :** 1008-DD-35089
- Farmer Name :** Patel Chaganbhai
- Name of Supplier :** Polysil Systems
- Village :** Peplu
- Taluka :** Lakhani
- Distric :** Banaskantha

At the bottom of the screen, there are two green buttons: "CANCEL" with a white 'X' icon on the left, and "NEXT" with a white right-pointing arrow icon on the right.

Cont...



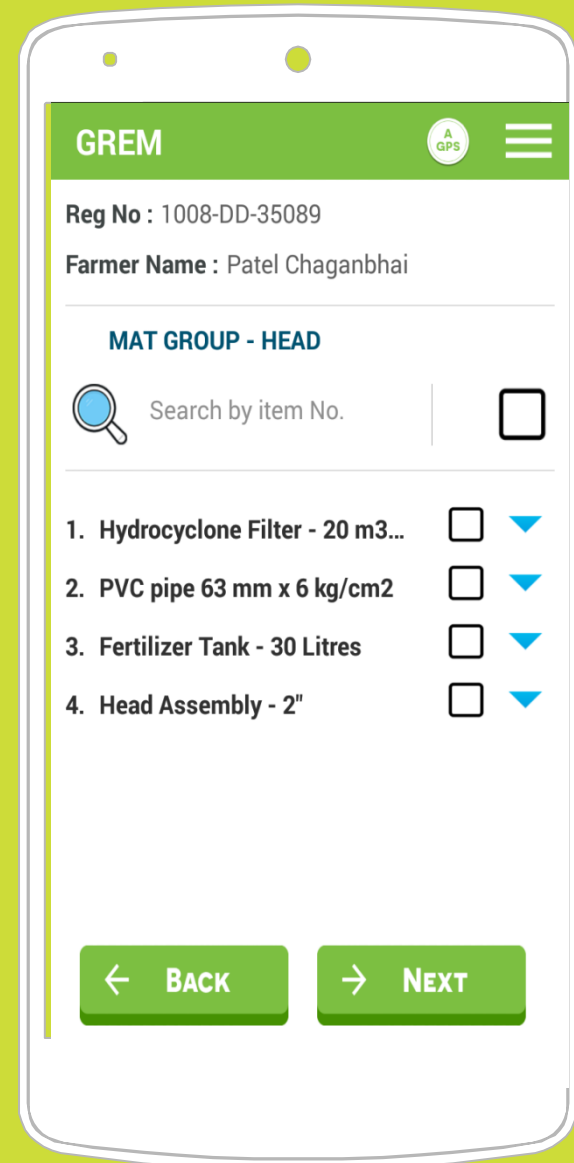
GREM APP

MAT GROUP-HEAD

This screen lists all items from the Mat Group - Head.

Functions:

- ▶ Search Item
- ▶ Check all "OK"



Cont...



GREM APP

Lastly, the user can upload one or more photographs of:

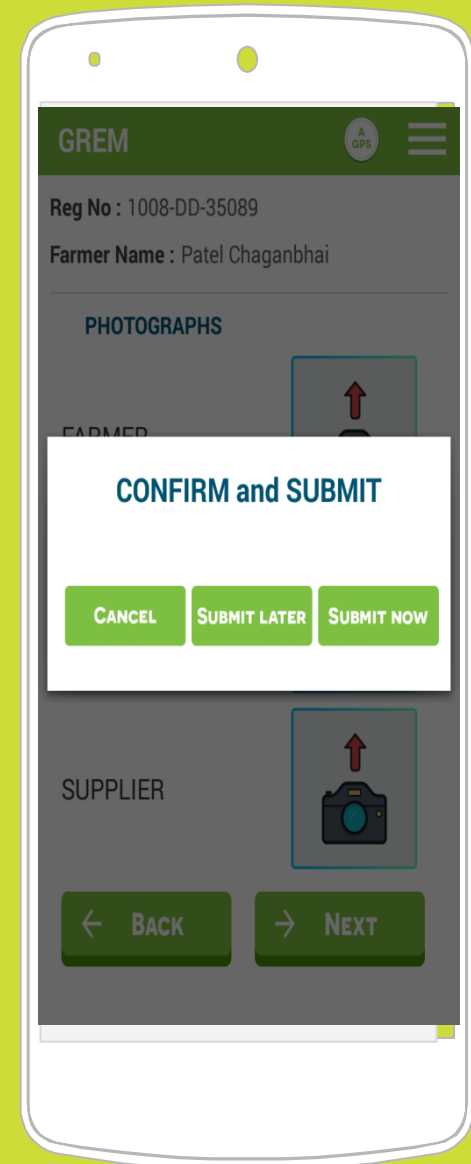
- ▶ Farmer
- ▶ Unit
- ▶ Supplier





GREM APP

User can choose to Submit Now or Save and Submit Later.



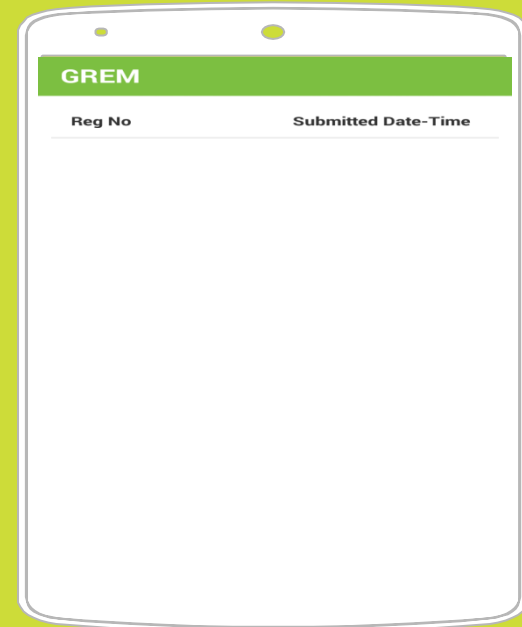
INCOMPLETE INSPECTIONS

This screen shows all the incomplete inspections. The user can simply go to edit and resume the testing from where they left.



PAST INSPECTIONS

This screen shows a list of all the past inspections completed by an inspector.



Verification by Engineers at GGRC through Google Map



GPS IMAGE VIEW - Windows Internet Explorer
http://172.16.30.10/gworks/page/GWORKSVIEWIMG.aspx

Registration Details :

Reg No :	1415-ARV-3360	Name Of Farmer :	KHARADI BABUBHAI SALUJI	Lonee/NonLoanee:	NONLOANEE
MIS System :	DRIP	MIS Supplier :	EPC INDUSTRIES LTD.	Source of Application :	TRIBAL DEPT
District :	ARVALLI	Taluka :	BHILODA	Village :	DHANDHASAN
Inspector :	SGS				

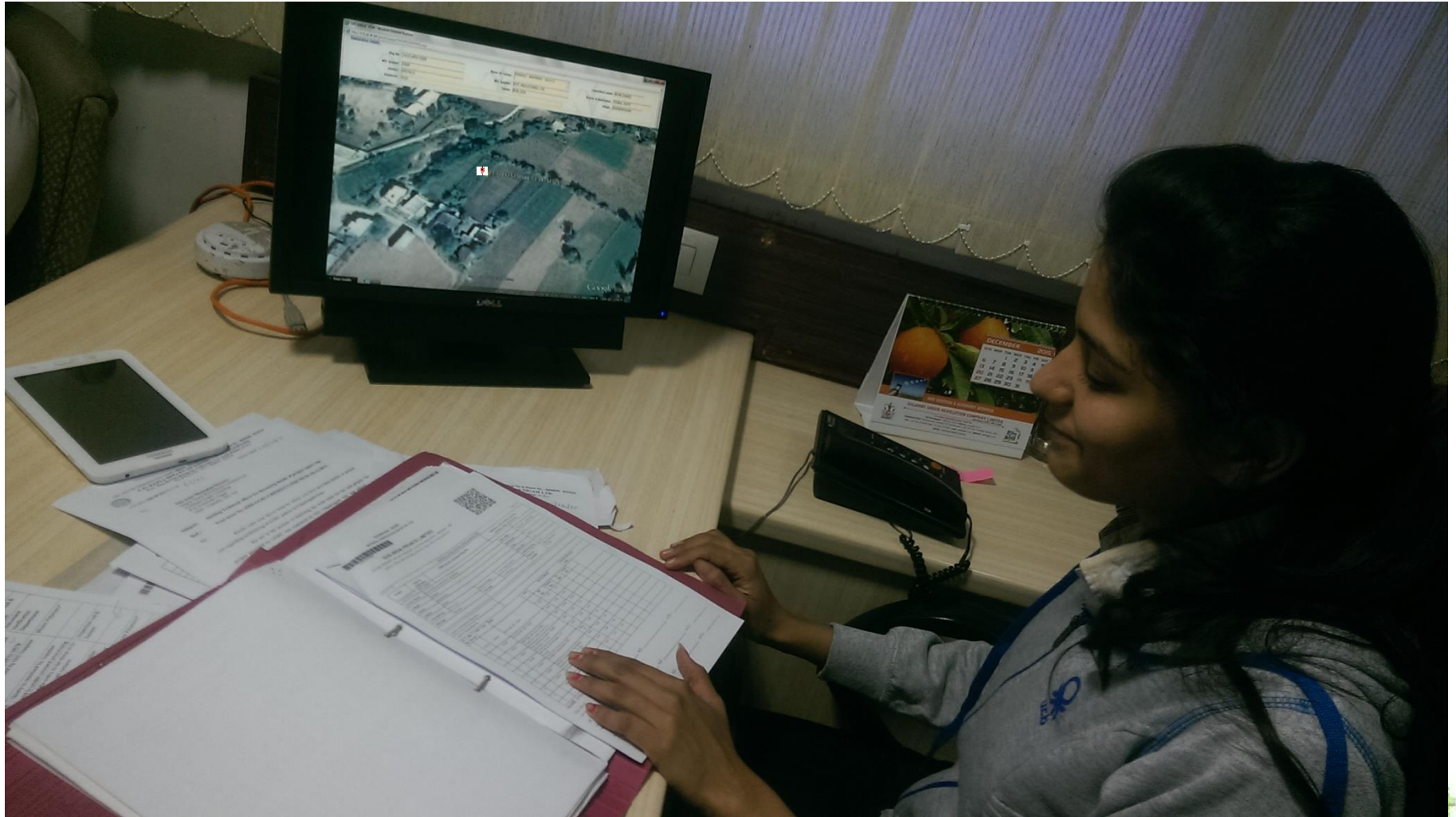
Image Details:

ID	Regno	LATITUDE	LONGITUDE	Images	IMGLocation
1	1415-ARV-3360	23.762818780000	73.266997610000		View Map
2	1415-ARV-3360	23.762822630000	73.266998710000		View Map
3	1415-ARV-3360	23.762824220000	73.266999020000		View Map
4	1415-ARV-3360	23.763031290000	73.266992230000		View Map
5	1415-ARV-3360	23.716560228902	73.347555801742		View Map
6	1415-ARV-3360	23.716515736566	73.347527297666		View Map
7	1415-ARV-3360	23.716522028786	73.347518085194		View Map
8	1415-ARV-3360	23.716406134795	73.346903777676		View Map

javascript:_doPostBack('grdimage\$ctl06\$LinkButton1','')

100%

Verification by Engineers at GGRC through Google Map





Innovative Initiatives

- With a view to empower the farmer, GGRC facilitates **SMS Services**, on a daily basis on Agronomic advisory in the vernacular (Gujarati) language, through SMS, on the mobile phones of all farmers who have adopted Drip Irrigation.
- Since 2011 till 31/03/2016; **2,18,700** farmers have subscribed to this service.
- The information provided under this facility includes
 - ✓ Daily Taluka specific **weather** forecasts,
 - ✓ **Rates** of **two crops** from **two mandies** of the farmers choice
 - ✓ Crop advisory and
 - ✓ Important **news** pertaining to the **Agriculture** sector.



This facilitates **informed decision making** at the level of farmers



Best Practices at GGRC

-As identified by NABCONS



Self Sustaining Set-Up

- Profit generation while implementing Government schemes.
- No dependence on State Government for maintenance
- Basis for complete autonomy in decision making including staffing

Effective use of Information Technology

- Effective integration of Project Management, Financial Management, and Management Information System MIS.
- Integrity of data is very high
- On-line access to beneficiaries and other stakeholders
- Lean and thin support staff required for sustaining operations – very low administrative and transaction costs
- Dedicated – Interactive Website



Cont...



Effective Checks and Balances

- Zero level misutilization of subsidy funds
- Third Party Inspection
- Audit of Third Party
- Structured Surveillance by GGRC
- Standalone Monitoring and Evaluation Consultant for yearly field monitoring study.

Innovative package

- Insurance of equipment and beneficiary
- Agronomical Support Services in post-implementation period
- Hand-holding for bank finance.



Cont...



Objective and Consultative Unit-Cost Revision Methodology

- In revision of unit cost of MI Systems the GGRC considers cost escalation in cost of MI components, secondary transportation and Installation Expenses (Skilled and unskilled manpower cost) separately.
- The revised unit cost is the sum of the revised unit cost of materials used, components used, secondary transportation and installation expenses. The methodology is made known to stakeholders
- Water Storage Sump has also been incorporated in the Scheme

- *Involvement of NGOs in Tribal Areas*
- *Exclusive Training Programmes for Tribal Youth*
 - Training in MIS Installation and Maintenance



Cont...



- *Inclusion of MIS in SSNNL canal command area as Pilot Project – Convergence with major irrigation scheme*
- *Dovetailing of Tribal Development Funds and MIS Scheme with the Provision of discriminatory subsidy up to 75 %*
- *Digitalization of MIS beneficiary files and records underway*
- Subsidy based on actual unit cost – support for balance difference between actual cost and CSS subsidy
- Preferential Power Connections to Farmers
 - The GoG have envisaged innovative schemes for providing preferential power connection to those farmers who have installed MI Systems through GGRCL.
 - These Schemes are named GUVNL – 2000, GUVNL – Tribal Area, GUVNL PDC/RC



File Colour Code System



For GGRC official use only

GUJARAT GREEN REVOLUTION COMPANY LIMITED
P.O. FERTILIZERNAGAR, DIST. VADODHA, 391 700

GGRC

GGRC Registration No. : _____

Farmer Name : _____
Village : _____ Taluka : _____
Dist : _____

DIS			
Processing Stage	Work Order		
	TPA		
	FP Release	Cancellation <input type="checkbox"/>	
		Auto Cancel <input type="checkbox"/>	

For GGRC official use only

GUJARAT GREEN REVOLUTION COMPANY LIMITED
P.O. FERTILIZERNAGAR, DIST. VADODHA, 391 700

GGRC

GGRC Registration No. : _____

Farmer Name : _____
Village : _____ Taluka : _____
Dist : _____

SIS			
Processing Stage	Work Order		
	TPA		
	FP Release	Cancellation <input type="checkbox"/>	
		Auto Cancel <input type="checkbox"/>	

For GGRC official use only

GUJARAT GREEN REVOLUTION COMPANY LIMITED
P.O. FERTILIZERNAGAR, DIST. VADODHA, 391 700

GGRC

GGRC Registration No. : _____

Farmer Name : _____
Village : _____ Taluka : _____
Dist : _____

DIS			
Processing Stage	Work Order		
	TPA		
	FP Release	Cancellation <input type="checkbox"/>	
		Auto Cancel <input type="checkbox"/>	

For GGRC official use only

GUJARAT GREEN REVOLUTION COMPANY LIMITED
P.O. FERTILIZERNAGAR, DIST. VADODHA, 391 700

GGRC

GGRC Registration No. : _____

Farmer Name : _____
Village : _____ Taluka : _____
Dist : _____

SIS			
Processing Stage	Work Order		
	TPA		
	FP Release	Cancellation <input type="checkbox"/>	
		Auto Cancel <input type="checkbox"/>	

DIS File 2015

SIS File 2015

DIS File 2014

SIS File 2014

For GGRC official use only

GUJARAT GREEN REVOLUTION COMPANY LIMITED
P.O. FERTILIZERNAGAR, DIST. VADODHA, 391 700

GGRC

MIS Registration No. : _____

NABARD'S Capital Subsidy Scheme of Govt for Promoting Solar Photo-voltaic (SPV) Water Pumping Systems for Irrigation Purpose

GGRC Registration No. : _____

Farmer Name : _____
Village : _____ Taluka : _____
Dist : _____

3 HP	AC <input type="checkbox"/>	DC <input type="checkbox"/>
Processing Stage	Technical Sanction	Trial Run Completed
Sticking of Company Logo Solar Pump Supplier	Name of Bank for Loan	Name of Bank Branch and Address

Original Spreadsheets (G.S. LIS)

Please fill following details in this spreadsheet and send the same to the concerned office number to be submitted with the Application Form.

Sl. No.	Name of Applicant	Processing Stage (Work Order)	Processing Stage (TPA)	Processing Stage (FP Release)	Processing Stage (Cancellation)	Processing Stage (Auto Cancel)
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Solar File 2015

List of doc. Annex.



Compact File Storage System



National Seminar on

“Climate Change, Water Resource Management and Livelihood Adaptation”



Presentation on Gujarat Drip Irrigation Approach Date: 07/05/2016

**RK Sugoora, IFS
Jt. Managing Director**



Gujarat Green Revolution Company Limited
P.O. Fertilizernagar, Dist: Vadodara

