

# ANDHRAPRADESH MICRO IRRIGATION PROJECT

- ✓ **State Government has established Special Purpose Vehicle i.e., APMIP with dedicated staff till Mandal level for effective planning, implementation and monitoring.**



- ✓ **Micro Irrigation is being implemented under Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) - PDMC.**

## ✓ Andhra Pradesh stands :

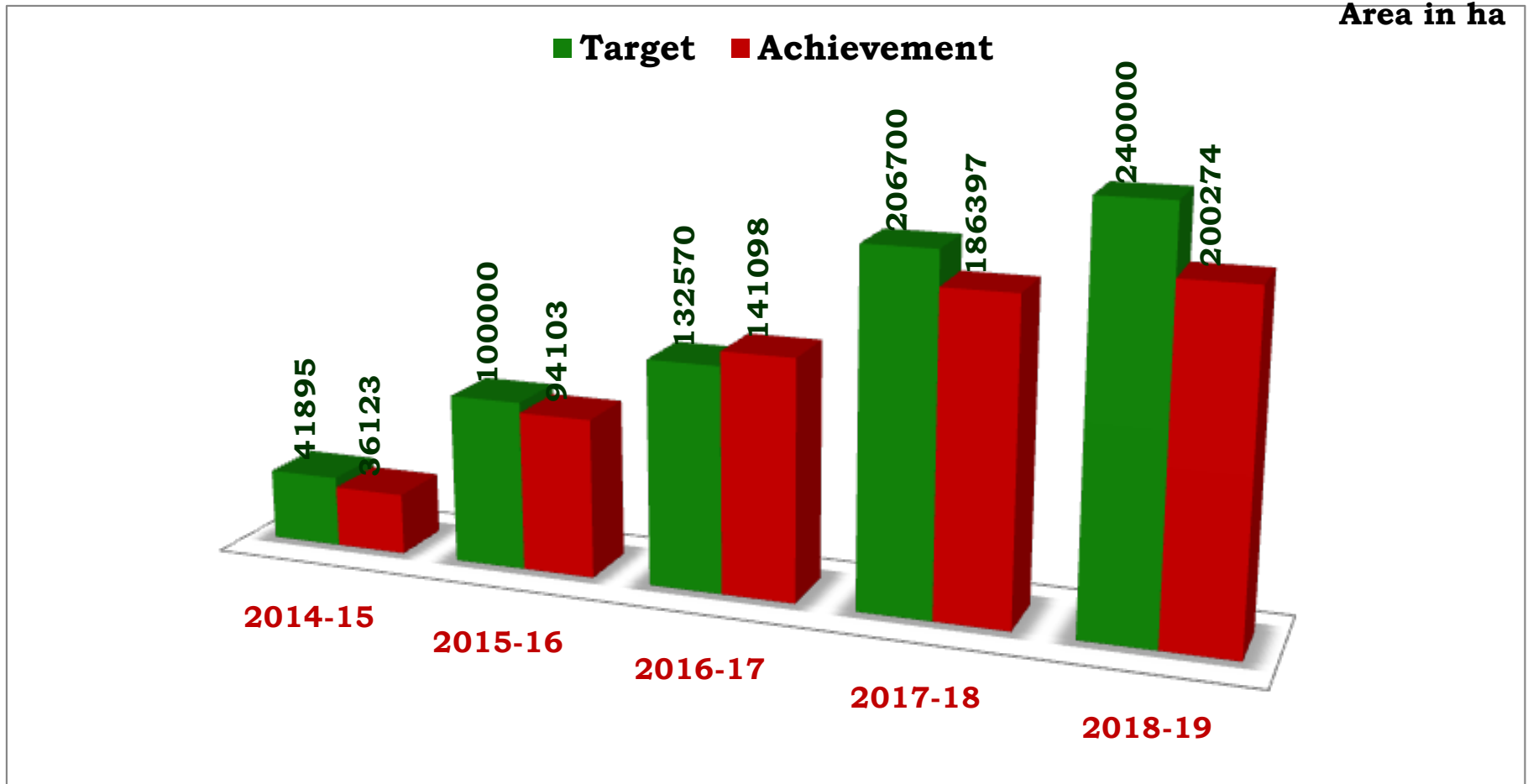
- 1<sup>st</sup> in area coverage under Drip.
- Among top 10 Districts under area coverage in Micro Irrigation, 6 Districts are from AP.



**AP registered 25% of total area covered under Micro Irrigation and 17% of total area under Drip in the Country during 2018-19.**

**Source: <http://pmksy.gov.in/>**

# PREVIOUS PERFORMANCE



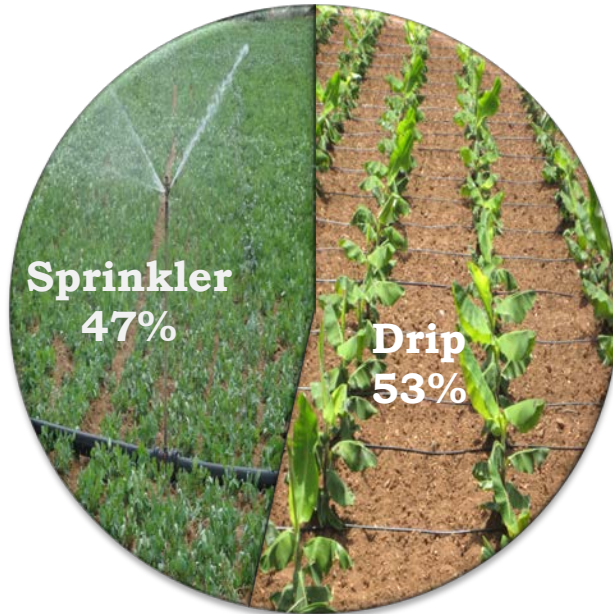
## TOP 10 DISTRICTS IN AREA COVERAGE IN INDIA (2018-19)

Sl. No	District	State	Area in HA
1	Ananthapuramu	Andhra Pradesh	34120
2	YSR Kadapa	Andhra Pradesh	33838
3	Chittoor	Andhra Pradesh	27274
4	Prakasam	Andhra Pradesh	23765
5	Kurnool	Andhra Pradesh	22824
6	Banaskantha	Gujarat	22393
7	Jalgaon	Maharashtra	19596
8	Villupuram	Tamilnadu	19516
9	Kalaburgi	Karnataka	19023
10	West Godavari	Andhra Pradesh	16151

**1.72 lakh. farmers covering 2.00 Lakh. HA in AP during 2018-19**

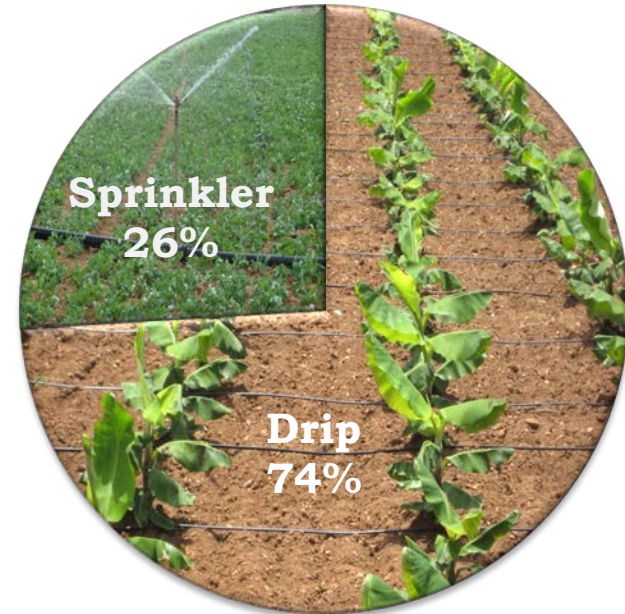
# AREA COVERAGE – 2015-16 to 2018-19

## INDIA



<b>Drip</b>	<b>1909231</b>
<b>Sprinkler</b>	<b>1662951</b>
<b>Total</b>	<b>3572182</b>

## AP



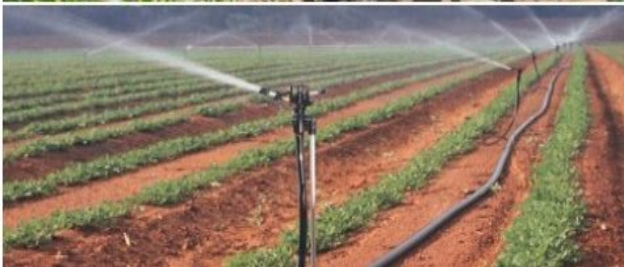
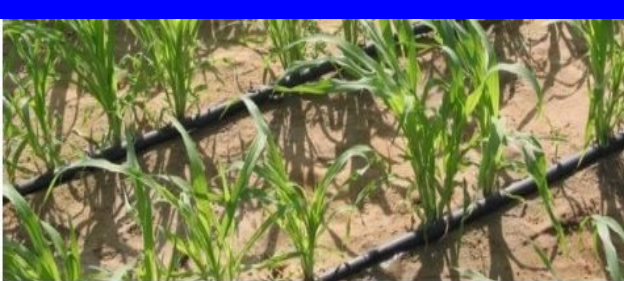
<b>Drip</b>	<b>460485</b>
<b>Sprinkler</b>	<b>161384</b>
<b>Total</b>	<b>621869</b>

**AP contributes 24% of Drip area & 17% of total area in India**

# DISTRICT WISE ACHIEVEMENTS - 2018-19

Area in ha

Sl.No	District	Target	Achievement			%
			Drip	Sprinkler	Total	
1	ANANTHAPURAMU	40000	27441	6683	34124	85
2	Y.S.R KADAPA	30000	26508	7328	33836	113
3	CHITTOOR	40000	25101	2173	27274	68
4	PRAKASAM	23000	17107	6675	23782	103
5	KURNOOL	25000	11950	10856	22806	91
6	WEST GODAVARI	22000	14263	1896	16159	73
7	S.P.S NELLORE	10000	5546	2383	7929	79
8	GUNTUR	8000	2747	4966	7713	96
9	KRISHNA	10000	4555	2983	7538	75
10	EAST GODAVARI	8000	3417	3151	6568	82
11	VISAKHAPATNAM	8000	2667	1960	4627	58
12	SRIKAKULAM	8000	1273	3033	4305	54
13	VIZIANAGARAM	8000	2332	1281	3613	45
<b>Total</b>		<b>240000</b>	<b>144905</b>	<b>55369</b>	<b>200274</b>	<b>83</b>



## **BEST PRACTISES IN AP**



# BEST PRACTICES

- ✓ **Fully automated online interactive web portal.**
- ✓ **Aadhar enabled Bio metric registration**



- ✓ **Awareness programme in non traditional areas to motivate and sensitize farmers.**



# BEST PRACTICES

- ✓ **Empanelment of MI Companies**
- ✓ **Selection of MI system provider as per the choice of the Farmer.**



- ✓ **Inspection prior to sanction to assess water availability, soil type and power supply.**
- ✓ **Installation within timeline.**

# BEST PRACTICES

- ✓ **Timely supply and installation of MI System.**



- ✓ **Installation as per the technical specifications and guidelines.**

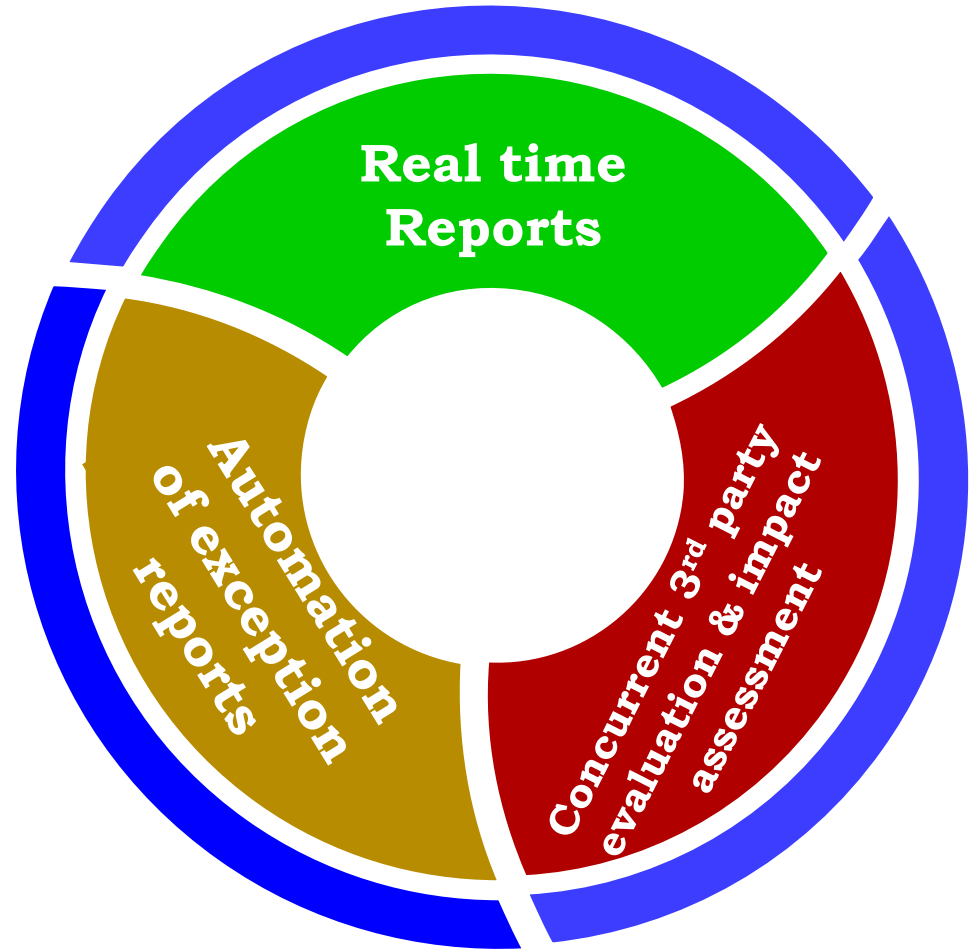
# BEST PRACTICES

✓ **Concurrent 3<sup>rd</sup> party Evaluation**



✓ **After Sales Service for a period of 5 years.**

# BEST PRACTICES



# BEST PRACTICES

- ✓ **Integration of Agronomic services and fertigation.**



**Toll Free Number**

**1800 425 2960**

#7110010

**Toll free number with online monitoring to redress farmers grievances.**

# BEST PRACTICES

## Customization of design for crop specific requirements



**Loop irrigation in Mango**



**Sub surface drip irrigation in Sugar cane**

# BEST PRACTICES



**Labyrinth Drip System for Nursery**



**Micro Sprinkler in Carrot**

# BEST PRACTICES



**Bhendi on Raised Beds with Drip Irrigation**



**Double lateral for Sweet Orange**



# PADDY UNDER DRIP IRRIGATION



**37% REDUCED  
COST OF  
CULTIVATION**



**50-60% LESS  
WATER**



**5% MORE YIELD**



**Unit Cost : Rs. 1,12,237/- per Ha.**

# BEST PRACTICES

**Fertigation equipment is mandatory – Increase Fertilizer use efficiency**

- ✓ **Regulation and monitoring of supply of nutrients.**
- ✓ **Application of Nutrients to Root zone.**
- ✓ **Application of Nutrients through out the season to meet the actual nutritional requirements of the crop.**



# SKILL DEVELOPMENT PROGRAMME

To provide self employment to rural youth in Micro Irrigation installations and fittings

To improve services for maintenance of MI Systems



APMIP in coordination with M/s Netafim & M/s Jain conducted (25) days (5days in house and 20 days in field) programme for rural youth .

Out of **512** youth trained in AP **495** were employed by MI Companies as **Micro Irrigation Technicians** during **2017-18**.

# BEST PRACTICES OF MICRO IRRIGATION IN SUGARCANE

- ✓ **Sugar cultivation under Micro Irrigation was taken up involving Sugar factories, MI Companies to encourage farmers to adopt Micro Irrigation practices with an objective of Water conservation and increasing water use efficiency.**
- ✓ **Coverage of Sugar cane under Micro Irrigation is being focused during the current financial year in close coordination with Agriculture department and Sugar factories.**

<b>Districts</b>	<b>Tripriate agreement entered by</b>		<b>Area proposed ( in ha)</b>	<b>Area covered under MI (in ha)</b>
	<b>MI Companies</b>	<b>Sugar factories</b>		
<b>Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, Krishna, Prakasam, SPSR Nellore, Chittoor</b>	<b>Finolex Plasson, Jain Irrigation, Netafim, NFCL, Rivulis, Signet &amp; Sri Anjani</b>	<b>Govada Sugar factory, Thandava Sugars, Nava Bharat Sugars, KBD Sugars &amp; Distillizers Pvt ltd.</b>	<b>4800</b>	<b>3610 ha</b>

# INTEGRATION OF LIFT IRRIGATION WITH MI

## Objective:

- I. To enhance & stabilize ayacut under existing 5 Lift Irrigation Schemes covering **445 Hectares**.
- II. To improve water use efficiency and productivity.

**Area of operation:** ITDA, Rampachodavaram of East Godavari District.

**Total out lay of the project:** Rs.23.64 Crores.

**Convergence with ITDA, NREDCAP & PMKSY (Other interventions)**



# 'INNOVATIONS...

## Automation in Small holdings

- ✓ **Precision & Regularity.**
- ✓ **Increased efficiency of water and fertilizer use.**
- ✓ **Savings in energy, water, fertilizer & labour cost.**
- ✓ **Easy to operate**



# 'INNOVATIONS...

## Demonstration of Mobile Drip (Flex net) on pilot basis :

- ✓ **Foldable piping solution for Main and Sub Main Lines.**
- ✓ **Easy to install.**
- ✓ **Light weight.**
- ✓ **Recoil & re-locate.**
- ✓ **Maximum durability.**
- ✓ **Environment friendly.**
- ✓ **Transport efficiency.**
- ✓ **Storage efficiency.**
- ✓ **No snaking.**



## WAY FORWARD

- ✓ **All Bore wells to be integrated with Micro Irrigation.**
- ✓ **Integration of Lift Irrigation schemes with community Drip.**
- ✓ **Adoption of Micro Irrigation for all Agriculture Crops.**
- ✓ **Micro Irrigation should be made mandatory for water intensive crops like Oil Palm, Sugarcane, Banana, Papaya, Citrus & Coconut etc.**
- ✓ **Low cost automation system for small holdings.**
- ✓ **Crops specific water usage & integration of Water Soluble Fertilizers (WSF) with Micro Irrigation.**
- ✓ **Micro Irrigation a solution for Drought mitigation in Rayalaseema & Prakasam Districts of Andhra Pradesh.**
- ✓ **Capacity building.**



# **ACTION PLAN 2019-20 (PROPOSED)**



**Physical  
1.94 lakh ha**



**GOI Share  
Rs.460.00 Crores**



**State Share Including Addl.,  
Rs.896.17Crores**



**Total Financial  
Rs.1356.17 Crores**



# More crop - per drop

**THANK YOU**

**ANDHRA PRADESH MICRO IRRIGATION PROJECT  
DEPARTMENT OF HORTICULTURE.**