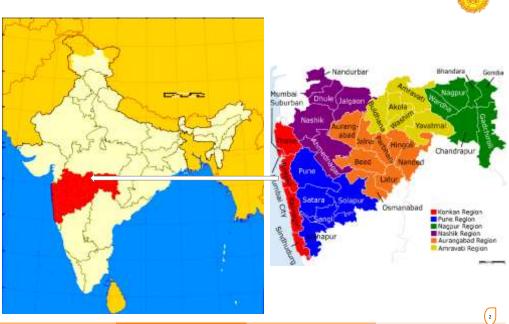


## **Map of India showing Maharashtra**





## **Maharashtra: General Information**



Geographical Area - 30.7 Mha.

River Basins - Godavari, Krishna,

Tapi, Narmada &

West Flowing Rivers Kokan

No of Irrigation Projects completed - 3023 (82 Major,186 Medium)

Total Water storage created - 33070 Mm3

Sectoral Allocation
75% Irrigation, 15% Drinking,

10% Industrial.

Irrigation potential created - 4.98 Mha.

Irrigation potential utilised - 3.98 Mha.

(3)

## **Objectives**



- ➤ To evaluate performance of the project in terms of adequacy of irrigation, water use efficiency, O & M costs and cost recovery.
- To evaluate spatial equality achieved in water distribution.
- To assess irrigation potential creation and its utilization.

## **Benchmarking Methodology**



- Benchmarking of irrigation projects initiated in 2001-02 with few projects, over the years, Benchmarking process has been internalised.
- Presently Benchmarking is carried out for 1237 projects in the State with 12 indicators.
- Separate organization within WRD is set up for carrying Benchmarking and Water Auditing.

5

## **Benchmarking Methodology...cntd**



- Benchmarking is coupled with Water Auditing for data validation.
- Benchmarking of WUAs started on pilot basis with 9 indicators.
- For every indicator comparison is done for last 5 year average, last year and present year.
- For financial indicator, prices of base year considered to obviate effect of price rise.

6

## **Indicators Selected**

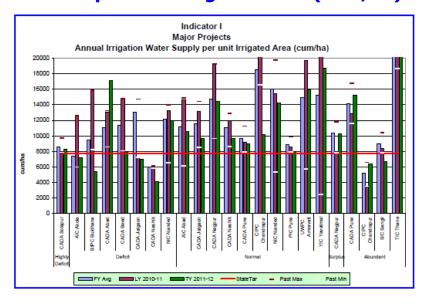


Sr. No	Indicator	Objective
1	System Performance (3)	
	Annual Irrigation Water Supply per unit Irrigated Area	To improve Water Use Efficiency
2	Agricultural production (2)	
	Output per unit Irrigation water supply	To improve productivity of water.
3	Financial (6)	
	Cost Recovery Ratio	To make the system self sustainable.
4	Social (1)	
	Equity Performance <b>Total 12</b>	To ensure equity in distribution of water

(7

# Indicator—I: Annual Irrigation Water Supply per unit Irrigated Area (cum/ha)





(8)

### **How Are the Results Shared**



- Annual Benchmarking Reports are published.
- Reports are available on websites (www.wrd.maharashtra.gov.in).
- Results are discussed in state, Regional meeting/ workshops.

### **Difficulties faced**

- In grouping large no. of scheme on similar footing
- Getting quality data.
- Motivating and keeping interest of project authorities.

9

### **Lessons Learned So Far**



- Useful management tool.
- Improvement in Water Use Efficiency.
- Improvement in overall performance through adoption best practices.

### **Way Forward**

- Use of IT and Remote Sensing.
- Capturing data at the source to get quality data and avoid delays.
- Transferring ownership of process to irrigation development corporations.
- New incentives to maintain healthy competition among project authorities.

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