ICAR-IWMI Collaborative Ad-Hoc Research Project
Enhancing Economic Water Productivity in Irrigation Canal Commands
Department of Irrigation & Drainage Engineering
Dr. AnnasahebShinde College of Agricultural Engineering and Technology
Mahatma Phule Krishi Vidyapeeth, Rahuri - 413 722 Dist: Ahmednagar (Maharashtra)

Fax: (02426) 243326 **Tele.**(02426) 243268

1.	**Name of the Research Scheme**	**:**	**Enhancing Economic Water Productivity in Irrigation Canal Commands.**
2.	**Year of start**	**:**	2017-2018
3.	**Contact Details**		
	Postal Address	**:**	Principal Investigator EEWPICC, Dept. of Irrigation and Drainage Engineering. Dr.AnnasahebShinde College of Agricultural Engineering & Technology, MPKV, Rahuri.
	Phone No	**:**	(02426) 243268
	Fax	**:**	(02426) 243326
	E mail	**:**	icariwmi.mpkv@gmail.com
4.	**Objectives/ Mandates**	**:**	1. Develop an analytical framework for identifying interactions and tradeoffs of various water related interventions within the WIZ. 2. Assess the level of agricultural water and energy productivity of existing production/farming systems in selecting canal commands. 3. Benchmark the performance of selected irrigation systems to identify potential interventions to improve performance. 4. Assess how other inputs, in conjunction with water, would increase the EWP. 5. Conduct ex-ante cost and benefits analysis of various interventions. 6. Prepare a strategy for adoption of the analytical framework and tools to enable improved investment decisions on new developments or revitalizing the canal commands.
5.	**Infrastructure**		
	Land (ha)	**:**	Nil
	Irrigation facilities	**:**	Nil
	Laboratories	**:**	Remote sensing and GIS Laboratory, available at Dept. of Irrigation and Drainage Engineering, Dr. A.S.C. A. E & T. MPKV, Rahuri.
	Advance facilities	**:**	Remote sensing and GIS Software's

6. Human Resource			
Technical Staff			
Sr. No.	**Name & Designation**	**Discipline**	**Remarks**
1.	Dr. S. D. Gorantiwar, Principal Investigator	Irrigation and Drainage Engineering	Filled
2.	Dr. S. A. Kadam, Co- Principal Investigator	Irrigation and Drainage Engineering	Filled
3.	Dr. P. S. Bodake, Co- Principal Investigator	Agronomy	Filled
4.	Er. S. S. Kamble, Senior Research Fellow, (ICAR-IWMI) Bhubaneshwar.	Soil and Water Conservation Engineering	Filled

7. Research Achievements :
Varieties : Nil
Recommendations : Nil

8. On-going Research (only list of ongoing research experiments)

1.	Assessment of Water Availability for Different Land Use Land Cover in Context of Climate Change for Sina.
2.	Development of Soft tool for Performance evaluation of Irrigation Schemes.
3.	Analysis of LULC of Sina command area using ground truth survey of cropping pattern.
4.	Digitization and status of masonry works of Sina canal network using ground truth survey.
5.	Mapping of soil chemical properties of Sina command area using Soil Health Cards (SHC).
6.	Periodical groundwater status of Sina command area.
7.	Energy accounting of Sina command area using household survey.