

MANDATE

- Undertake research and develop strategies for controlling land degradation under all primary production systems and rehabilitation of degraded lands in different agro-ecological zones of the country.
- Provide leadership and co-ordinate research network with State Agricultural Universities/Institutions/NGOs/State Departments for developing location-specific technologies in the area of soil and water conservation.
- Act as a national and international centre for training in research methodologies and updated technologies in soil and water conservation, watershed development and its management.
- Provide consultancy and collaborate with national and international institutions in the field of soil and water conservation.

MISSION

To develop technologies for controlling land degradation, rehabilitating degraded areas and enhancing productivity of rain dependent areas on sustainable basis for ensuring food, environmental, economic and livelihood security of stakeholders.

VISION

Conservation and management of soil and water resources of the country for sustainable production.

SIGNIFICANT ACHIEVEMENTS

- Estimated production and monetary losses due to water erosion in rainfed areas of India.
- Completed delineation and characterization of Mahi ravines.
- Computed Soil Loss Tolerance Limits (T value) for different agro-ecological regions of India.
- Prioritized erosion risk areas for effective planning and implementation of conservation programmes.
- Methodology standardized for design of staggered contour trenches in degraded areas.
- Identified intercropping systems for contingency crop planning for Chambal ravines.
- Designed and developed site specific artificial ground water recharge filters.
- Developed rainwater harvesting and recycling model for Shivalik foothills.
- Developed technology for rehabilitation of minespoil affected areas.
- Developed geotextile based technology for slope stabilization and erosion control.
- Developed multi-objective decision support system for watershed development programmes.

- Developed integrated farming system for Mid-Himalayas.
- Developed map of Shivalik region of North Western Himalayas
- Developed rainwater harvesting and utilization techniques for red soils of Bundelkhand Region.
- Studied temporal dynamics of land use change in Koraput district of Odisha for the last 80 years.
- Developed ravine area distribution map of Sawai Madhopur and Kota districts, Rajasthan.
- 1.4 Develop a robust groundwater recharge simulation (RGRS) model for predicting potential groundwater recharge from recharge ponds.
- Developed bamboo based interventions for reclamation and productive utilization of degraded gully beds.

LOCATIONS OF REGIONAL STATIONS

1. Agra (Uttar Pradesh)
2. Bellary (Karnataka)
3. Chandigarh (Punjab & Haryana)
4. Datia (Madhya Pradesh)
5. Koraput (Odisha)
6. Kota (Rajasthan)
7. Udhamandalam (Tamil Nadu)
8. Vasad (Gujarat)

FIVE BEST TECHNOLOGIES/PRODUCTS

- Recharge filter – a cost effective technology for augmenting groundwater
- *Jhola Kundi*: A low cost water harvesting technique for augmenting production of *Jhola* lands in Eastern Ghats High Land Region of Odisha.
- Map of Shivalik region of Himachal Pradesh, Punjab, Haryana, Uttaranchal and Uttar Pradesh
- Gravity fed PVC pipe based water conveyance system - an alternative to traditional Guhl irrigation in Himalayan region
- Bamboo based interventions for reclamation and productive utilization of degraded gully beds

NEW INITIATIVES

- Consortia Research Platform-Water Theme 1 - Water Resources Augmentation / Conservation (Water Platform Project) (ICAR).
- Efficient Groundwater Management for Enhancing Adaptive Capacity to Climate Change in Sugarcane Based Farming Systems in Muzaffarnagar District, U.P. (NMSA).
- Ensuing Sustainable Agricultural Development and Livelihood Security in Lower Shivalik Range of Uttarakhand (DST).

- Creation of ICT Network to Disseminate Knowledge about Soil and water Conservation Technologies to Farmers in North West Himalayan Region (ICAR).
- Development of cost effective plastic checkdams for water harvesting in rainfed regions (ICAR).
- Devising economic framework for ecosystem services' payment and farmers' livelihood in Mahi and Chambal ravine ecosystems (ICAR).
- Sustainable agriculture for food, nutritional and ecological security and for ameliorating climate change impacts in the Eastern Ghats Region.
- Conservation agriculture and cover crop strategy for vegetable crops in hilly areas
- Strategies for rain water harvesting and its multiple water use in central Gujarat
- Soil Health Cards preparation and distribution
- Mera Gaon Mera Gaurav – adoption of villages

COLLABORATIVE PARTNERS

Institute has developed strong linkages with DAC, DoLR, IITs, TCS, NBSS&LUP, WIHG, NJB, CGWB, RuTAG, NABARD and other State Line Departments.

FLAGSHIP PROGRAMMES

- Erosion Productivity Modelling and Crop Yield Enhancement
- Development of DSS and Use of Open Source Resources for Watershed Development

THRUST AREAS FOR XII PLAN

- Land degradation and erosion risk for conservation planning
- Knowledge base and expert systems
- Cropping systems and conservation agriculture for land and water management
- Climate change mitigation and adaptations
- Appropriate cost effective resource conservation technologies for better wider adoption
- Agroforestry and horticultural systems for resource conservation
- Socio-economic analysis and policy development for watershed management
- Human resource development and technology transfer

EXTERNALLY FUNDED PROJECTS/CONSULTANCY

Foreign aided projects: 1 (India-Austria Scientific-Technological Co-operation)
 Other sponsored projects: 11 (DST-3, NJB, NICRA, Water Platform, NMSA, ICAR National Fellow, ICAR Extra Mural-3)
 Consultancies: 11 (Ddun-8, Bell-1, Chnd-1, Kora-1)

STAFF STRENGTH

	Sanctioned	Filled	Vacant	% vacant
Scientific	129	99	30	23
Technical	176	127	49	28
Administrative	83	63	20	24
Supporting	204	135	69	34
Total	592	424	168	28

QRT

Period: 2006-07 to 2010-11
 Chairman: Dr. H.S. Chauhan
 Next QRT due for: 2012-13 to 2016-17

RAC

Period: May 2014 to May 2017
 Chairman: Dr. B.C. Mal
 Next RAC due for: 2017 to 2020

IMC

Period: 2012 to 2015
 Chairman: Dr. P.K. Mishra
 Next IMC due for: 2015 to 2018

RFD COMPOSITE SCORE FOR 4 YEARS

Year	2011-12	2012-13	2013-14	2014-15
Score	96.25	93.43	94.80	92.90

STATUS OF ISO 9001

Certified by LMS Certifications Pvt Ltd with new name of the Institute – Indian Institute of Soil & Water Conservation

PUBLICATIONS (PREVIOUS YEAR)

- No. of papers in NAAS rated journals:
- (a) No. of paper in score < 6: 48
 - (b) No. of papers in score > 6: 41
 - (c) Total 89
 - (d) Per scientist per year papers: 0.90

FINANCIAL OUTLAY (Rs. in lakh)

	XI Plan actual utilization	XII Plan actual utilization	Last year budget		
			RE	Actual expenditure	% utilization
Plan	2172.66	4950	470.00	458.86	97.62
Non-plan	13675.33	-	4509.28	4505.30	99.91
Total	15847.99	4950	4979.28	4964.16	99.70

RESOURCE GENERATION FOR LAST 3 YEARS (Rs. in lakh)

2013-14	2014-15	2015-16
252.87	138.97	132.27

Director: Dr. P K Mishra

Tel: 0135-2758564

Email: directsoilcons@gmail.com