



Welcomes Delegates
Capacity Building Workshop-cum-Training



on

**Use of Geospatial Tools, Models and DSS in Enhancing
the Productivity of Irrigated Saline Environment**

24-28 August, 2010

Sponsored by

NATIONAL AGRICULTURAL INNOVATION PROJECT (NAIP)

Organized by



Water Technology Centre, IARI, New Delhi –110 012



Gone are the days when we are taught and advised to answer three questions viz. When to apply? How to apply? and How much to apply? Now, with tremendous deterioration of water quality, there is an addition of a significant question related to water quality *i.e* What quality of water to apply? We are aware that judicious management of water resources and production of more crop per drop of water is the need of the hour. It is imperative to use poor quality of water in agricultural production as the water resources are becoming scarce day by day. In this context, under the National Agricultural Innovation Project of ICAR, a project entitled “Decision Support System (DSS) for enhancing the productivity of Irrigated Saline environment using Remote Sensing, Modelling and GIS” is operational at Water Technology Centre, IARI, New Delhi in the capacity of consortium partner with the lead centre at CSSRI, Karnal. Under this project, we are organizing a workshop-cum-training programme pertaining to capacity building of the senior officials working in Command area development, Irrigation and Agriculture departments and KVKs’ engaged in the middle and tail reach of Western Yamuna Canal (WYC) command. The workshop on **“Use of geospatial tool, models and DSS in enhancing productivity of Irrigated Saline environment”** is scheduled to be held from 24th to 28th August 2010 at Water Technology Centre, IARI, New Delhi-110 012. This programme will be attended by the sponsored senior level officers from CADA, Dept of Agriculture, SAU and KVKs’ working in the WYC command area of Rohtak, Jhajjar and Sonipat districts of Haryana State. The workshop will be interactive and lectures on different modules will be delivered by the experts as indicated in the schedule below:

Workshop-cum-Training
On
***Use of geospatial tools, models and DSS in enhancing
productivity of Irrigated Saline environment”***

(August 24 -28, 2010)

Venue: Seminar Hall, WTC, IARI, New Delhi – 110012

Sponsored by: National Agricultural Innovation Project (Sub project under component-1 entitled “**Decision Support System (DSS) for enhancing the productivity of Irrigated Saline environment using Remote Sensing, Modelling and GIS”**)

Programme Director and Co-ordinators: Dr. A. Sarangi ; Dr. D.K. Singh and Dr. B.S. Kalra, WTC, IARI New Delhi

(L- Lecture topic; P- Practical topic)

Date/Time (h)	Topic	Instructor (s)
24th August 2010 (Tuesday)		
9.30-10.00	Registration	NAIP project associates of WTC
10.15-11.15	Inaugural session	Scientists and technical staff
11:15 – 11:30	Tea break	
11.30-12.30	Emerging trends and plausible scenarios for efficient Irrigation water management – An Indian Perspective.	Dr. T.B.S. Rajput
12.30-13.00	Visit to WTC museum, experimental fields of WTC and PFDC (P)	Dr. D.K. Singh, Dr (Ms) N. Patel
13.00-14.00	Lunch break	
14.00- 15.30	Presentation by the participants highlighting the significant problems of the WYC and discussion on its possible remediation.	Dr T.B.S Rajput Dr. A. Sarangi Dr D.K. Singh Dr B.S. Kalra
15.30 - 15.45	Tea Break	
15.45 – 17.00	Introduction of the geospatial tools, models and DSS and its application in Irrigation water management (L)	Dr A. Sarangi and Dr A.K. Lohani
25th August 2010 (Wednesday)		
9.30-10.30	Technologies for enhancing productivity in irrigated saline environment (L)	Dr. D.S. Bundella
10.30-11.30	Modern tools and methods for ground water monitoring and conjunctive use (L)	Dr. D.K. Singh
11.30-11.45	Tea break	
11.45-13.00	Use of indigenous and advanced instruments in Irrigation scheduling for efficient water management (L)	Dr. Man Singh
13.00-14.00	Lunch break	
14.00-16.00	Estimation and importance of water quality indicators in irrigation water for sustained crop growth. (L +P)	Dr. S.S. Parihar and Dr. A. Sarangi
16:00- 17:30	Irrigation Water Economy – Scope for improvement in	Dr B.S. Kalra

	canal command areas	
26th August 2010 (Thursday)		
9.30-10.30	Irrigation water management activities in the WYC canal command areas (L)	Faculty from CADWM, GoI
10.30-11.30	Use of geospatial tools and crop models to predict the irrigation water requirement and crop yield under different water availability situations.(P)	Dr A. Sarangi Dr D.K. Singh
11:30 – 11:45	Tea Break	
11.45-13.00	Salinity management in Irrigation commands for enhancing crop productivity (L)	Dr A.K. Bhattacharya
13.00-14.00	Lunch break	
14.00-15.30	Enhancing water use efficiency in Canal command areas (L)	Dr Manoj Khanna
15.30-15.45	Tea break	
15.45-17.00	Recent advances in micro irrigation system and scope for its use in canal command areas. (L)	Dr (Ms) N. Patel
27th August 2010 (Friday)		
9.30-10.30	Crop water requirement and its estimation using different methods (L)	Dr A.K. Mishra
10.30-11.30	Overview of surface irrigation methods, hydraulics, its design and management in command areas. (L)	Dr R.K. Sharma
11.30-11.45	Tea break	
11.45-12.45	Development of DSS for enhancing the productivity under irrigated saline environment – A case study (P)	Dr (Mrs) R. Kaur
12:45- 13:15	Demonstration of developed DSSs on management of soil and water resources (P)	Dr A. Sarangi
13.15-14.00	Lunch break	
14.00-15.00	Impact of climate change on water availability and crop productivity in canal command areas (L)	Dr H. Pathak
15.00-17.30	Filming of documentary “An Inconvenient Truth” and discussion on the impact of climate change on water resources and mitigation strategies.	Dr M. Khanna Dr A. Sarangi Dr D.K. Singh
28th August 2010 (Saturday)		
9.30- 10.30	Socio-economic analysis and livelihood improvement in canal command area (L+P)	Dr B.S. Kalra
10.30-11.30	Relevance of geospatial tools and models in modern day agriculture (L)	Dr. H. Chandrasekharan
11.30- 11.45	Tea break	
11.45-13.00	Use of modern tools in Farmers field – bottlenecks, feasibility and dissemination of model results	Dr T.B.S Rajput Dr A. Sarangi Dr D.K. Singh Dr B.S. Kalra
13.00-14.00	Lunch break	
14.00-15.00	Role of ICDS in Management of Natural Resources	Guest Faculty
15:15 – 17:00	Feedback and Valedictory function	All faculty