



Report #:07

GRADUATE SEMINAR SERIES

Empowering the Irrigation Reforming Institutions in Sindh

Seminar Conducted by: Mr. Nazeer A. Essani General Manager (Transition) Sindh Irrigation Drainage Authority

January, 2015









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1. Graduate Seminar Series – a Brief Introduction:

Graduate seminar series is one of the regular features of this center and are organized on weekly basis and preferably on Fridays. These seminars are aimed at keeping the students and faculty of the center well informed with the latest research findings, facts and trends in water and related sectors. Experts from the field are invited to deliver lectures & presentations and give talks on the most emerging water related issues and the best practices adopted worldwide in addressing those issues.

So far; the center has organized following seminars;

S.No.	Торіс	Speaker(s)/Presenter(s)	Date
1	Spate Irrigation: Potential and Challenges in Sindh	Mr. Karim Nawaz Baloch, Water Expert from Balochistan Dr. Kamran Ansari, USPCAS-W Dr. Altaf Ali Siyal, USPCAS-W	4/9/2015
2	Health, Safety and Environment	Engr. Nizamuddin Domki, HSE Trainer	18/09/2015
3	Impact of Climate Change on Water Resources of Sindh Province	Senator Nisar A. Memon Dr. Ghulam Rasul, Pakistan Meteorological Department	5/11/2015
4	Water quality around us: Overview of situation in Hyderabad and Tharparkar	Prof. Dr. Muhammad Iqbal Bhanger , University of Karachi	12/11/2015
5	Water: Resources , Issues and Management	Prof. Dr. Iqbal Ahmed Panhwar, Bahria University Karachi	11/12/2015
6	How to review research paper & write a research proposal	Dr. Sajjad Ahmad, University of Nevada, Los Vegas USA	22/01/2016

2. Empowering the Irrigation Reforming Institutions in Sindh

On Friday January 29, 2016, Mr. Nazeer Ahmed Essani – General Manager (Transition), Sindh Irrigation Drainage Authority (SIDA) Hyderabad, delivered his lecture and presentation on **"Empowering the Irrigation Reforming Institutions in Sindh"**.

The seminar was started with recitation of Holy Quran by Mr. Moazzam Ali Rind – MS (HID) Student of this center while Mr. Farhan Wahid Soomro – MS student of Environment Engineering moderated the proceedings of the seminar.

Dr. Rafique A. Chandio – Director Administration welcomed the participants and guests in the seminar.





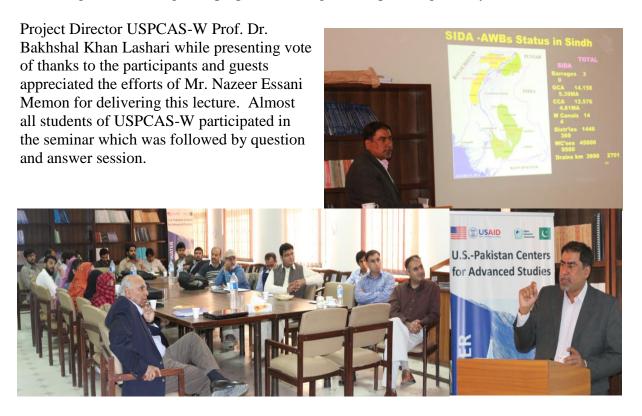




Mr. Nazeer Ahmed Essani – speaker of the seminar while delivering his lecture on the topic, gave historical perspective and importance of Indus River in early community irrigation system. In order to fair distribution of water among all the stakeholders especially the tail-end and small farmers, he said that it was principally agreed on the transformation of Irrigation Department into autonomous Bodies like SIDA, Area Water Boards (AWBs) and Farmer Organizations (FOs).

He said these institutions maintain barrages, canals, distributaries and minors. It also ensure the fair and transparent delivery of water to farmers according to their legal share. While delivering his lecture, Mr. Essani presented illustrated presentation on multimedia, in which graphical representation showed the water use and conveyance efficiencies, irrigation water equity and reliability, base line surveys, comparison of crop yields and Abiana recovery mechanism.

Mr. Essani was of the view that the fair distribution of water can be materialized by institutional reforms in water sector of Pakistan while SIDA is doing its best by bringing such reforms at grass root level in the designated districts of Sindh Province. He mentioned that country's irrigation system is one of the best systems developed in British Colonial era, but it was poorly managed in our governance structure. He further said that water reservoirs are needed to save the water otherwise the country will face the extreme water scarcity. In this connection, small dams can be constructed on hilly areas to store rainfall water and the same can be regulated for irrigation purpose in an organized spate irrigation system.



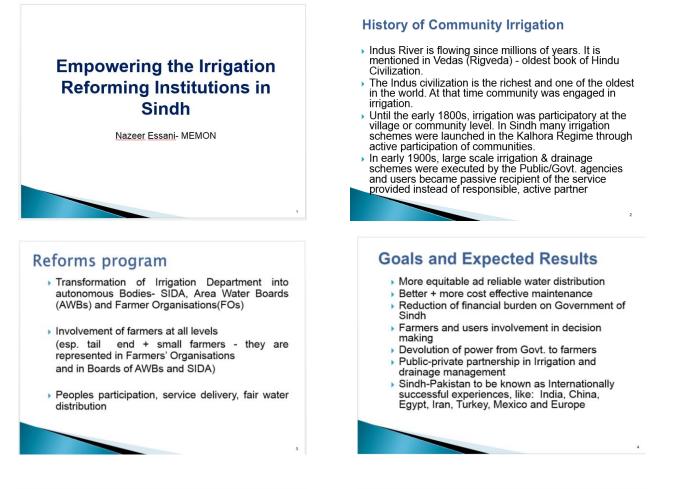


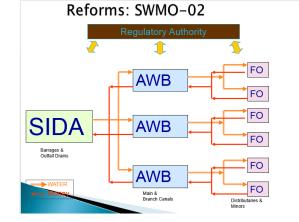






Presentation 3.

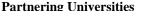




SIDA

The new Institutions

- maintains <u>barrages</u>, delivers water to AWBs, maintains main/outfail drains + <u>bunds</u> along river, prime agent of change AWBs
- maintain main canals, deliver water to FOs, pay SIDA For services FOs
- maintain <u>distributaries/minors</u>, deliver water to farmers, collect revenue, pay AWBs For services
- Regulatory Authority (Govt. body; Govt. policies) supervises SIDA, AWBs, FOs and arbitrate conflicts (currently SIDA is acting as RA as per section 100 of SWMO-2002).

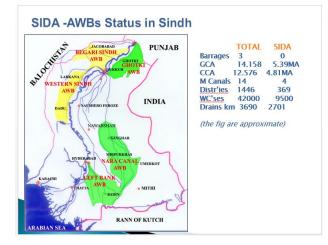












Board	Representation	SIDA Act 1997	SWMO- 2002
SIDA	Farmer Representative	01	05 (1 tail, 1 small)
	Independent/Academician	0	05
	Govt. Representative	07	05
AWB	Farmer Representative	02	05 (1 tail, 1 small
	Independent/Academician	03	06
	Govt. Representative	04	0

SIDA Board and AWB Membership

FOs Formation and Management

Т	ransfer			
s	Area Water Boards	Total FOs to be Registered (Tentative)	FOs Registered/ Formed	Management Transferred
1	Nara Canal AWB	184	161	159
2	Ghotki Feeder Canal AWB	94	89	62
3	Left Bank Canal AWB	105	93	93
Others (Rohri, Khairpur, etc) 15 0			0	
	Total	383	358	314
worl	choreseminars/FOs conventions/IDMT agree		eing held as regular fe	ature of SIDA

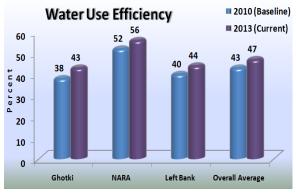
Partnering Universities







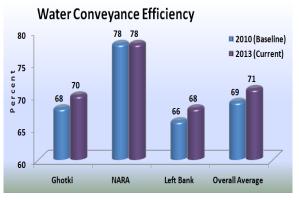




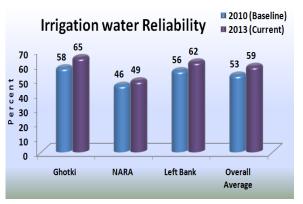
Source: Baseline Survey and periodic reports



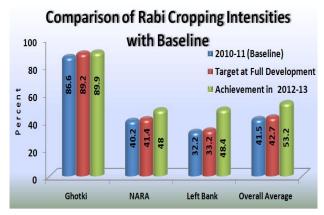
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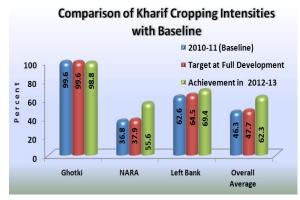
Source: M&E Bi annual crop Season Reports











Source: M&E Bi annual crop Season Reports

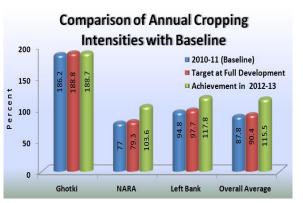
	Crop Yield <u>Maunds</u> (40 kgs) per acre			
Crops	2010	Target at Full	Achievement in	
	(Baseline)	Development	2010-11	2012-13
Rice	53.5	55.1	30.4	41.9
Cotton	32.6	33.6	10.6	25.6
Sugarcane	787.9	811.5	495.2	555.9
Wheat	31.7	32.7	33.9	30.5
Rape & Mustard	12.2	12.6	13.7	15.1
Sunflower	12.9	13.3	11.0	12.1

Comparison of Crop Yields with Baseline

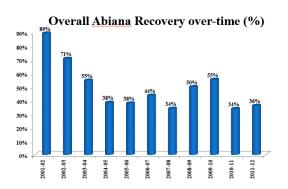
Source: M&EC Bi-annual crop season Reports

Total Abiana Assessed and Collected During last 11 years (2001-02 to 2011-12)

	Million Rupees		Recovery
AWB	Abiana Assessed	Abiana Collected	Ratio (%)
Nara AWB	610	298	49
Left Bank AWB	229	79	35
Ghotki AWB	197	126	64
Total	1036	503	49



Source: M&E Bi annual crop Season Reports



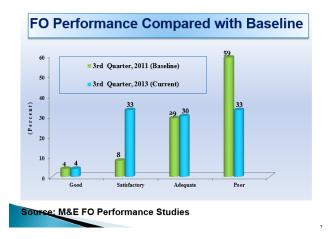
FOs Performance Assessment

- On quarterly basis, performance of FOs is assessed through surveys of 24 sample FOs.
- Five indicators are used to assess their performance and sustainability.
- 1. Organizational Development (20)
- 2. Irrigation Service Delivery (30)
- 3. Management of Physical condition of Channels (20)
- 4. Dispute Resolution (10)
- 5. Water Charges (abiana) Assessment and Collection (20)









Strategic Issues of empowerment

- Transitional timeframe as per SWMO not met Government was supposed to complete appointment of the AWBs and transfer of Barrages in Sindh by 30th June 2005
- Administrative Transfer of Irrigation Department Staff to SIDA and AWBs
- Delegation of powers, administrative control of irrigation staff to SIDA and AWBs
- Full activation of SIDA Board- no meeting of SIDA Board for last 18 months
- Elections of SIDA Board and AWBs
- Approval of SIDA Rules of Business- Law department to <u>vett</u>
 Difficulty in enhancing water price for Agriculture and commercial
- At source deduction of water dues from provincial, municipal bodies
- and federal agencies
- Recovery from farmers- chronic defaulters

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