

SINDH IRRIGATION & DRAINAGE AUTHORITY (SIDA)
Sindh Water Sector Improvement Project (WSIP)

TRAINING REPORT

**44th One Day Training of FOs NCAWB
ASHABO MINOR, KANDIARO MINOR
& KINJAJI MINOR**

HELD ON August 9, 2018



SOCIAL DEVELOPMENT CELL-TRANSITION WING

NEW SIDA SECRETARIAT

LEFT BANK, BARRAGE COLONY, HYDERABAD

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Introduction:

The province of Sindh has embarked on a major reforms and established Sindh Irrigation and Drainage Authority (SIDA) in 1997 for improvement of water management in Sindh through Participatory Irrigation Management (PIM) since the establishment of SIDA, it established three Area Water Boards (AWB), Nara Canal Area Water Board (NCAWB), Ghotki Feeder Canal Area Water Board (GFCAWB) and Left Bank Canal Area Water Board (LBCAWB) which are functional and working independently.

In this connection the World Bank started Sindh Water Sector Improvement Project (WSIP) to address the issues of irrigation and agricultural in Sindh province. This project also covers the component of Community Development and Capacity Building, so the trainings are essential activity to develop the capacity of FOs so that they can perform effectively.

The overarching project objective is to improve the efficiency and effectiveness of irrigation water distribution in three AWBs (Ghotki, Nara and Left Bank), particularly with respect to measures of reliability, equity and user satisfaction. This would be achieved by: (a) deepening and broadening the institutional reforms that are already underway in Sindh; (b) improving the irrigation system in a systematic way covering key hydraulic infrastructure, main and branch canals, and distributaries and minors; and (c) enhancing long-term sustainability of irrigation system through participatory irrigation management and developing institutions for improving operation and maintenance of the system and cost recovery. The improved water management would lead to increased agricultural production, employment and incomes over about 1.8 million ha (about 30% of the irrigated area in Sindh), which is one of the poorest regions of the country.

Social Development Cell Transition Wing SIDA organized one-day Training for Board of Management members of FO Ashabo Minor, Kandiaro Minor & Kinjaji Minor at FO Office, Ashabo Minor Village Imtiaz Ahmed Cheema, Cheema Farm, Taluka Samaro, District Umerkot. Board of management members and some active WCA chairmen participated in training.

Background of Farmers Organizations

S#	Name of FO	Tenure	No. of Water Courses
1	<i>ASHABO MINOR</i>	3 rd	08
2	<i>KANDIARO MINOR</i>	3 rd	09
3	<i>KINJAJI MINOR</i>	3 rd	10

Venue: FO Office, Ashabo Minor Village Imtiaz Ahmed Cheema, Cheema Farm, Taluka Samaro, District Umerkot.

Topics Covered:

Intro: Training Objectives

Session-1: Expectation of participants/ Training objectives / out put

Session-2:	Introduction to Institutional reforms
Session-3:	SWMO 2002 & IDMTA
Session-4:	Strengthening of FO's on Organizational Management
Session-5:	Financial Organizational, Abiana Assessment & Collection
Session-6:	Channel Operation & Maintenance

Resource Person / Facilitator:

- Mr. Arif Laghari, Institutional Specialist , SIDA
- Mr. Muhammed Ghous Laghari, Institutional Specialist , SIDA
- Mr. Zaid Sipio, Institutional Specialist , SIDA
- Mr. Aziz Khero AM(SM) LBCAWB
- Mr. Mansoor Umer Khanzada, AXEN for FOs
- Mr. Akber Bughti AXEN for FOs

Total Number of Participants: 48

FO Representatives	39
SIDA Representatives	07
Other	02

Brief of Training:

One day training of Three FOs of Nara Canals AWB was held on 09th August, 2018 at Umerkot. The training was organized by Social Development Cell-Transition Wing SIDA under Component-A3 of WSIP. All Management Committee Members of FOs were invited. The participation percentage was 100%. The resource person from SIDA delivered the lectures and covered major topics During Q&A session all resource persons played vital role while answering to FOs. FO representatives showed keen interest in training and appreciated the efforts of SIDA for capacity building of FOs. They made also suggestion that trainings should be at grass root level and General Body of FO may be covered. FO representatives also showed their grievances that AWB staff is not being supported them in Channel O&M and recovery of Abiana. Madam Farzana replied them that he will take up the matter in AWB meeting and emphasized his views that sub divisional level of meetings will be conducted very soon to develop better coordination with FOs and AWB staff.

During training refreshment was served and after that Certificate distribution ceremony held and lunch served to all participants.

Expectations of participants from training

By: Mr.Mansoor Umer Khanzada AXEN SIDA

Mr. Mansoor umer khanzada conducted this session and facilitated the participants to express their expectation from this training. Participants said that they are newly elected

representatives of FOs so they want to know that how they properly perform their responsibilities. Some participants said that we want to learn best methods of channel operation and maintenance. Some participants said that how we can make our farmer organizations more strengthen. How equitable water distribution can be ensured from head to tail.

Objectives of Training:

By: Mr. Arif Laghari, Institutional Specialist, SIDA

After knowing the expectations of participants from training, Mr. Arif Laghari, Institutional Specialist, SIDA explained in detail about the aim and objectives of training. He said that the capacity building component of the project is very essential component; the main role of our field teams is to assist and support the FOs for their capacity building, and provide technical assistance to FOs, as the FOs may perform their role like as strengthen institutes, and manage their routine business in organized way. He further said that there are main four responsibilities of farmer organizations as per Sindh Water Management Ordinance 2002, which is equitable water distribution from head to tail, proper channel operation and maintenance, abiana assessment and collection and conflict resolution. He said we want that Farmer Organizations should be well trained to perform these responsibilities properly. He further said that Social Development Cell of SIDA has planned various activities for capacity building of representatives of FOs like as basic and specialized trainings at FOs level; exposure visits of FOs to FOs within Area water Boards and other Area Water Boards and nominations of FO representatives for national and international trainings.

Introduction of Institutional Reforms and SWMO-2002

By: *Arif Leghari Institutional Specialist SIDA*

Mr. Arif Laghari informed the participants about irrigation system and institutional reforms in irrigation system. He said that the irrigation system of Pakistan is the largest integrated irrigation network in the world. The system gets irrigation water mainly from Indus River and its tributaries. The salient features of the system are three major storage reservoirs (Dams) namely Tarbella & Chashma on river Indus and Mangla on river Jhelum, with the present total live storage of about 12.5 MAF, 19 Barrages, 12 inter river link canals and 43 independent irrigation canal commands.

Diversion of River waters into off taking canals is made through barrages, which are gated diversion weirs and a system of link canals. The main canals, in turn deliver water to branch canals, distributaries and minors. The watercourses get their due share of water through outlets in the irrigation channels.

Sindh province has a vast irrigation & drainage network and it is one of the primary beneficiaries of Indus basin irrigation system with three gigantic Barrages that divert about 48 MAF of water annually to the 14 main canal commands in the province. These canal systems have an aggregate length of 13325 miles and serve a gross command area of about 14.4 million acres. There are also about 42000 watercourses.

The Sindh Irrigation and Drainage Authority (SIDA) is an autonomous organization, taken over the system of Nara Canal, Left Bank Canal (Fulleli & Akram Wah) and Ghotki from irrigation department and now being operated through Area Water Boards

under SIDA. The Sindh Irrigation and Drainage Authority (SIDA) have been established in 1997 through SIDA Act 1997.

As per institutional reforms in irrigation system the channels upto distributary / minor level have been transferred to the farmer organizations (FOs) through irrigation & drainage management transfer agreement (IDMT) under Sindh Water Management Ordinance 2002. The irrigation management of canal at province level is to be organized on participatory basis by establishment of Area Water Boards (AWBs) on Canals.

After institutional reforms in irrigation systems three institutions SIDA, AWBs and FOs have been formed through Sindh Water Management Ordinance 2002 which manage irrigation system from canals to WCA level. The responsibilities and functions of these institutions are as under:-

Task and responsibilities of SIDA

- Supply water from the Barrage to the Canals. These canals will be operated by Area Water Boards.
- Levy water charges from the Area Water Boards and other water users.
- Construct, operate and maintain irrigation, drainage and flood protection infrastructures.
- Manage the transition process, to promote the formation, growth and development of the AWBs and FOs into self-supporting and financially self-sustaining entities.

Functions of Area Water Board

- To operate and maintain the parts of the irrigation system conferred on it including but not limited to main canals and branch canals.
- To carry out flood protection and maintain infrastructure within its command area.
- To promote the formation, development and growth of the FOs in its command area into self-supporting and financially self-sustainable entities.
- To monitor equity in water distribution and measures for preventing water theft.
- To monitor and review O&M plan of FO Channels.
- To review, supervise and assist the assessment and collection of abiana by FOs.
- To prepare and implement of rotational program of channels with consultation of FOs.
- To assess and support FOs in technical matters related to O&M of the channels.
- To ensure better response to emergencies.

Functions of Farmers Organizations

- To operate & maintain the parts of distributary / minor
- To ensure equitable and judicious distribution of water including small and tail end farmers
- To assess and collect the abiana.
- To maintain the books of accounts
- To ensure dispute resolution

Organizational Management and Abiana Assessment & collection

By: Ghous Laghari Institutional Specialist SIDA

Mr. Ghous Laghari Social Mobilization Officer SMG-SIDA has delivered the lecture on Organizational Management. He explained the aim and objectives of an organization, the growth of an organization in different levels. Mr. Ghous explained in detail that the organizations are formed to achieve a major goal and for achieving that goal the strategy is planned.

He explained that how the organizations plan their strategies and started activities to achieve their goal. He said that monitoring and evaluation is must to access and analyze the progress of organization. He briefly introduced the process of monitoring and evaluation. He said that the main responsibilities of an FO are equitable distribution of water from head to tail, abiana assessment and collection and channel operation & maintenance. It is prime responsibility of FO to get their channel's due share of water from canal and assure the availability of due share of water to each outlet from head to tail. He highlighted the Role and Responsibilities of an FO and emphasized to the members to perform their role with responsibility.

Responsibilities of Farmers Organization:

1. Operation & Maintenance of the Channel
2. Water acquirement, equitable distribution & ensured supply from head to tail
3. Better management to control the salinity & water logging
4. Collection of Abiana & other payable charges and payments to the concern Area Water Board (AWB) as per agreement.
5. Resolution of conflicts of concern farmers
6. Procurement of necessary staff
7. Record keeping of all activities
8. Better planning for development of the organization
9. Monitoring & evaluation of all activities
10. Coordination & collaboration with stakeholders

He urged the members to develop the linkages with line departments, and different organizations because the strong communication and linkages with other organizations is essential for a reputable organization. Mr. Ghous said that the basic things, like FO office, updated organizational, financial and technical record and required staff are very necessary for FO. He explained in detail that what kind record of organizational, financial and technical must be available and updated at the office of FO.

Basic Record for Farmer Organizations

Organizational Record	Financial Record	Technical Record
Register of all Khatedars	Receipts Book	Field Book
Membership Register	Voucher File	Field Khasro
Membership Forms	Cash Book	Jamabandi Book
Minutes Book	Ledger	Billing Book
Outward Register	Cheque Book	Karia Register (Record of Right)
Inward Register	Abiana Register	Deh Map
Stock Register	Bank Statements	Command Plan (Map) of all Watercourses
Visitor Book	Audit File	Command Plan (Map) of

		Channel
Staff Register	Business plan file	D-Statement
Regulations of FO & Copy of SWMO-2002		C-Statement
Assets Register		L-Statement
Share Lists		Cross Section
List of Commercial Water Users		Inventory List
Letter head of FO		List of Trees and plants
Notification / Registration Certificate of FO		
Copies of WCA registration certificates		
File of general correspondence		

Channel Operation & Maintenance

By: Mansoor Umer Khanzada AXEN & Mr Akber Bughti AXEN SIDA

Mr. Mansoor Umer Khanzada & Mr Akbar Bughti Assistant Engineers of SIDA delivered lectures to the participants on channel operation & maintenance. They explained in detail through diagrams interactive discussion. They said that as per institutional reform in irrigation system the Channels upto Distributary / Minor level are transferred to the Farmers Organizations (FOs) through Irrigation & Drainage Management Transfer Agreement (IDMTA) under Sindh Water Management Ordinance (SWMO) – 2002, therefore it is necessary for representatives of FOs and farmers to know about the main structures, characteristics of good irrigation and activities required for channel operation & maintenance.

First of all they explained the main structures of irrigation system as under.

Main Structures

1. Dam

Water storage through construction of Embankments (bunds) on rivers to store the flood water to regulate the water to river(s)

2. Barrage

Construction of weir structure to store and regulate the flow of water in rivers & main canals

3. Cross Regulator

Construction of weir structure to store and regulate the flow of water in main canals, Branch Canals, Distributaries, Minors, Watercourses

4. Head Regulator Construction in the head of a channel, through which the water flows in to the channel.

5. Module / Outlet

The structure constructed to divert irrigation flow to the fields from main canal, branch canal, distributaries & minors.

6. Fall Structure

Structure constructed in channels having steep gradient to control the water levels to dissipate the energy of falling water.

7. Aqueduct

A structure constructed to provide passage to flowing water a drain channel or water course.

8. Bridge

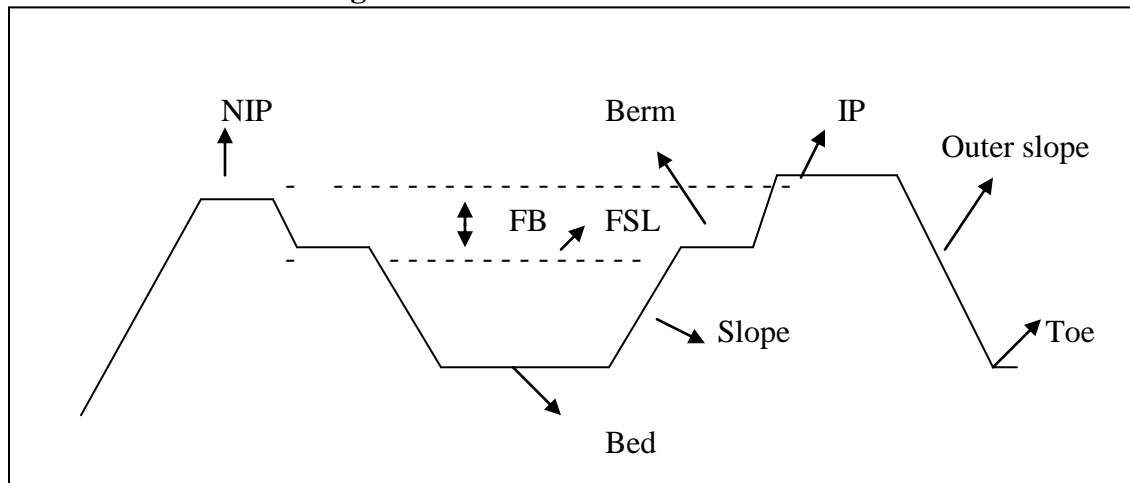
Different type of overheads (bridges) constructed for different uses.

9. Escapes

Regulator type structure on main canals & branch canals constructed for discharging excessive water

After that engineers make clear to the cross section of a channel through following diagram

Channel Cross Section Diagram



This diagram shows different locations of cross section of a channel, which are defined as under:

- NIP: - Non Inspection Path means embankment (Bund) of a channel which is not used for regular monitoring / visit along channel.
- IP: - Inspection Path means embankment (Bund) used for regular monitoring / visits along channel.
- Berm: - the inner area between water way and embankments to cater the excess water in channel.
- FB : - It is the distance between FSL and top level of the embankments and is generally provided to control the excessive water flow in channel.
- FSL: - The flow surface level of water as per design discharge.
- Slope:- A slope of a side of the area of channel reserved for water flow
- Bed: - Base of the area of waterway of channel.
- Toe: - It is the corner between embankment and the natural ground level.

In the last the participants were informed about the channel Repairing and Maintenance.

Channel Repairing & Maintenance

The earlier flow, erosion, weather conditions, movements of peoples, animals, these all effects the design of the channel. The repairing of channels is necessary to maintain / restore the original designs of the all parts of the channels

Kinds of channel repairing

1. **Common repairing:**

Daily or weekly basis works. Clearance of paths, vegetation etc, closing of rains breaches, repairing of berms, gray onus work, oiling or greasing to the gates.

Note: Above works are the basic responsibilities of lower operational staff working on the channels.

2. **Preplanned Repairing:**

During specific timings the detailed checking of structures and equipments, banks, berms, gates, bed, slopes etc and their repairing as per requirement.

3. **Seasonal Repairing:**

During the fixed specific timings around a year repairing of paths, animal ghots, flood breaches, juck works etc

4. **Yearly Repairing:**

The works, which could not be done in all above repairing timings will be covered in seasonal repairing i.e. Repairing of Outlets, head to tail desilting of the channel, repairing of the regulator etc.

5. **Un planned repairing:**

Due to climatic impacts some repairing works are taken up on emergency basis for example breaches of channel damage of any culvert etc.

Field staff & equipments for maintenance & repairing

There are Field men (Beldars) to maintain / repair the minor damages. Equipments necessary for a Beldar for repairing maintenance works are as follow:

- Axe (Kuhari)
- Speeder (Kodar)
- Bucket (Tokree)
- Rope (100 feet)
- Daito
- Rambo
- Bottle
- Lantern (Bati)
- Bamboo (6 to 12 feet)

Question and answer Session

At the end of sessions the participants asked different questions and the resource persons answered them in detail.

Training Evaluation:

By: Mr. Ghous Leghari (IS) & Mansoor Umer Khanzada (AXEN SDC SIDA)

After all sessions Mr. GHous Leghari & Mansoor Umer Khanzada facilitated the participants to give feedback about the training. The participants said that it was a very good and informative training for newly elected representatives of FO. They said that they become clear about their role and responsibilities. They have learned that how they can make more strengthen to their FOs. Some participants said that they become more aware about the need and importance of institutional reforms in irrigation system. Some participants expressed that they got knowledge from the training that how they can properly maintain their channel using proper way of channel operation and maintenance.

Monitoring of Training:

The training was monitored by Mr. Saeed Ahmed Jaagirani GMT SIDA. He appreciated the farmers to take part in training. He emphasized his views that the power of water has been devaluated to the grass root community now it is duty of FOs to perform well and achieved the desired objects of reforms.

Certificates Distribution:

In the last training certificates were awarded to the participants through Mr. Saeed Ahmed Jaagirani GMT SIDA, Madam Farzana Abbasi SDS SIDA, SDO NCAWB & SIDA & NCAWB Team.

Annexures:

1. Invitation letter to FOs for participation in training.
2. Attendance Sheet / List of Participants
3. Training Session plan

Pictorial View





Attendance Sheet

ATTENDANCE SHEET

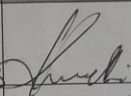
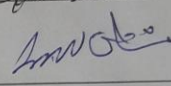
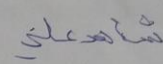
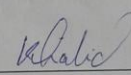

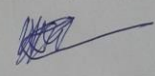
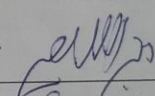
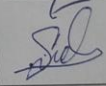
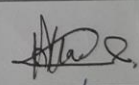
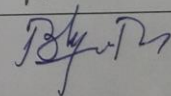
Training of FARMERS' ORGANIZATIONS (FOs)

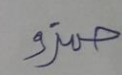
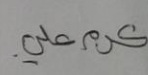
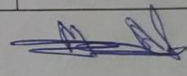
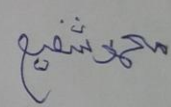
Located in Nara Canal Area Water Board

Date: 09 - August - 2018

S#	Name	Designation	Farmers Organization	Contact Number	Signature
1	Ghulam Murtza	Secretary	FO Kandiyaro Minor	03003328763	
2	M. Umar Cheema	G.B Member	FO Ashabo Minor	03440620507	Umar
3	Chamanlal	G.B Member	FO Ashabo Minor	03463367898	Chamanlal
4	Sikander Ali	Sub Engineer	NCAWB	03440010554	
5	Abdul Razaq	w/c Member	FO Kandiyaro Minor	03429902612	
6	Mukhtiyar Ahmed	Member	FO Ashabo Minor	03352050312	

S#	Name	Designation	Farmers Organization	Contact Number	Signature
7	Bashir Ahmed	w/c Chairman	FO Kanjiji Minor	03488266405	
8	Faizullah	Member	FO Ashabo Minor	03353656804	
9	Abdul Haque	w/c Chairman	FO Kanjiji Minor	03400802775	A Haque
10	Comrade Hukam Ali	Member	FO Ashabo Minor	03083540444	
11	Muhammad Mansha	Member	FO Ashabo Minor		
12	Ramso Khan	Member	FO Ashabo Minor	03053843852	
13	Choudhry Muhammad Akram	w/c 3 Member	FO Ashabo Minor		
14	Muhammad Jamil	w/c 4 Member	FO Ashabo Minor	03002912917	
15	Zohair Ali	Member	FO Kinjeji Minor	03481389723	
16	Shoaib Ali	Member	FO Kinjeji	03488302016	

S#	Name	Designation	Farmers Organization	Contact Number	Signature
17	KANRAN	Member	FO Kanjeshi	0342121928	
18	Mushtaque Ahmed Bughara	Tail Abadgar	FO Ashabo Minor	03848961708	
19	Shahidale	w/c 4 Chairman	FO Kanjiji Minor	03450130370	
20	Khalid Ahmed	w/c 4 Member	FO Ashabo Minor	03322647130	
21	Mewokolhi	Vice Chairman	FO Kandiyaro Minor	03362613431	
22	Kishankal	w/c Member	FO Ashabo Minor	03342481103	
23	Muhammad Shabir Halephoto	Chairman	FO Kandiyaro Minor	03006075341	
24	Rajdin Banglan	Treasurer	FO Ashabo Minor	03003324235	
25	Atahdad Dahri	w/c 2 Member	FO Kandiyaro Minor	03443517929	
26	Bhayun Nis	w/c 6 Treasurer	FO Kandiyaro minor	03493576993	

S#	Name	Designation	Farmers Organization	Contact Number	Signature
27	Hamzo Khan	w/c 8 Member	FO Kanjiji Minor	03483574812	
28	Karam Ali	w/c 4 Member	FO Kandiyaro Minor	03419583812	
29	Muhaib Ali	Chairman	FO Kanjiji Minor	03412667643	
30	Muhammed Shafi	w/c Member	FO Kanjiji Minor		

S#	Name	Designation	W/C No	Contact No	Signature
31	Asghar Ali	Chairman	FO Ashab Minor	03482365600	
32	Qadir Rux	Canal	FO Kanjili Minor	03483719940	
33	Tulso Mal	Abdax	FO Ashab Minor	03313885714	
34	Hafiz Asif	Member	FO Ashab Minor	03461137760	
35	Cheetan	Member	FO Ashab Minor	03482529322	
36	Darogo	Member	FO Ashab Minor	03487161351	
37	Grenomal	Member	FO Ashab Minor	03421516544	
38	Kaloo Mal	Member	FO Ashab Minor	03400088440	
39	M. Abbas Nasir	Member	FO Ashab Minor	03402727020	
40	Bali	Member	FO Ashab Minor	03401033115	
41	Saleh Jagirani	G.M.T			
42	Mahmud Sugrao	S. D. Kadi			

S#	Name	Designation	W/C No	Contact No	Signature
43	Fazlan Abbasi	SDS	SIDA		
44	Muhammad Hif Balah	IS	SIDA	0333-2681950	
45	Zaid Sifro	IS	SIDA	03315767122	
46	Abdul Aziz	AM	NCAWB	03339200223	
47	Ghous Laghori	I.S. FRO	Badim SIDA	03133091158	
48	Ali Akbar Bugti	AEN FOS	SIDA	03332920305	
49					