



WATER SECTOR IMPROVEMENT PROJECT (WSIP-I)

**Report on Walk Through Survey of 1st Batch of
FO Managed Channels at NCAWB**

MARCH 2009

Sindh Irrigation and Drainage Authority (SIDA)

Left Bank, Barrage Colony, Hyderabad, Sindh, Pakistan

Phone # +92-22-9210084 Fax # +92-22-9210085

Email: sds@sida.org.pk Website: www.sida.org.pk

Table of Contents

1. Introduction	02
1.1 The project	
1.2 Selection criteria	
1.3 Composition of survey team	
2. Pre-Walk Through Consultative Meetings with FOs	04
2.1 FO Boilo Minor	04
2.2 FO Kandiaro Minor	05
2.3 FO Karna Minor	07
2.4 FO Kunri Distry	09
2.5 FO Darelo Minor	10
2.6 FO Ashabo Minor	12
2.7 FO Khahi Distry	13
3. Walk Through Survey of FO	14
3.1 FO Boilo Minor	14
3.2 FO Kandiaro Minor	16
3.3 FO Karna Minor	18
3.4 FO Kunri Distry	20
3.5 FO Darelo Minor	23
3.6 FO Ashabo Minor	25
3.7 FO Khahi Distry	27
4. Resettlement Data	31
4.1 FO Boilo Minor	31
4.2 FO Kandiaro Minor	32
4.3 FO Karna Minor	33
4.4 FO Kunri Distry	34
4.5 FO Darelo Minor	36
4.6 FO Ashabo Minor	38
4.7 FO Khahi Distry	39
5. Environmental impacts	
5.1 FO Boilo Minor	40
5.2 FO Kandiaro Minor	40
5.3 FO Karna Minor	41
5.4 FO Kunri Distry	41
5.5 FO Darelo Minor	42
5.6 FO Ashabo Minor	42
5.7 FO Khahi Distry	43
6. Environmental and Social Safeguard Policies applicable	44
7. Annexes	
7.1 TOR prepared by SIDA for rehabilitation works	Annex – 1
7.2 Copy of Notification of Walk Through Survey Team	Annex-2
7.3 List of Participants of Pre-Walk Through Consultative Meetings	Annex-3
7.4 List of Participants of Walk Through Survey	Annex-4

Introduction

1.1 The Project

The World Bank is sponsoring a project titled Water Sector Improvement Project Phase-I (WSIP-I) in three AWBs of Sindh province to:

1. Deepen and strengthen the institutional reforms already underway in Sindh
2. Improve the irrigation system in Sindh in a systematic way covering key hydrological infrastructure, main and branch canal and distributaries/minors
3. Enhance long term sustainability of irrigation system through participatory irrigation management and developing institutions for improving operation/maintenance and cost recovery

Under the project 173 FO managed channels would be rehabilitated and improved by de silting, creating proper section of the channels, reconstruction of canal banks and berms, inspection paths and strengthening of non-inspection path, reconstruction of outlets, repairing and reconstruction of head and cross regulator structures, construction of measuring sections, buffalo wallows and washing ghatts where necessary, rehabilitation and construction of foot and village road bridges and any other work identified by FO, plantation of trees, rehabilitation/construction of FO offices, provision of office equipment, furniture and necessary facilities and stationery. The selection of work would be done by the FOs based on their own priorities within the available funds.

1.2 Selection Criteria

A batch of 07 FO managed channels was selected from the list of channels qualifying for rehabilitation works under WSIP.

The channels were selected on the criteria as per SOP prepared by SIDA for WISP rehabilitation works (Attached as Annex A) . The priority was assigned on the basis of , channels belonging to

- tail portion of canal command ,
- populated by small land holding farmers ,
- having women farmers representation
- having brackish sub soil water in the command area
- close proximity with each other ,

1.3 Composition of Team

To determine the scope of the above mentioned works, it was decided that a pre-walk through consultative meetings with FO General Body members will be held and a team of FO representative will be selected through these meetings to accompany the walk through survey team nominated by SIDA. During the walk through surveys, the representatives of operation wing, R & D wing, social development cell of SIDA and AWB staff along with nominated FO representatives visited the channels from head to tail and necessary entries were made in the prescribed proformas.

The findings of pre-walk through consultative meetings and walk through surveys of 1st batch of 07 FO managed channels of NCAWB are presented in this report.

Pre-Walk Through Survey Consultative Meeting with FO Boilo Minor

The SIDA's Walk Through Survey Committee members held meeting with the GB members of FO Boilo Minor at Village Haji Sohrab Khan Gahelro, Taluka Pithoro, District Umerkot for pre-walk through consultation with the GB members of FO on 16/01/2009. The purpose of the meeting was to brief the GB members about the scope of work, environmental, gender aspects and resettlement. Following SIDA officials and FO GB members participated in the meeting:

1. Mr. Jai Ram Deputy Director (I&F) Operation Wing, SIDA
2. Mr. Ali Anwar Chandio Deputy Director, EMU, R&D Wing, SIDA
3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA
4. Ms. Shakeela Leghari Gender Coordinator, SIDA
5. Ms. Zaib Jatoi SDC, SIDA
6. Mr. Rasheed Mahar, Coordinator SMG-SDC, SIDA
7. Mr. Zulfiqar Ali Memon, FTI Umerkot, SMG-SDC, SIDA
8. Haji Sohrab Gahelro GB Member
9. Mr. G. Hussain Gahelro GB Member
10. Mr. Abbas Ali GB Member
11. Mr. M. Ibrahim Chandio GB Member
12. Mr. Nawab Chandio GB Member
13. Mr. Hamzo Nuckrich GB Member
14. Mr. Eidal Nuckrich GB Member
15. Mr. Luqman Mahar GB Member

Mr. Rasheed Mahar in detailed briefed the GB members about the aims and objectives of the pre-walk through consultative meeting. Mr. Jai Ram in detail briefed the GB members about the scope of rehabilitation works to be carried out on the channel. Mr. Ali Anwar Chandio in detail briefed the participants about the environmental aspects to be focused during the rehabilitation works. Ms. Shakeela Leghari in detail briefed the GB members about the gender issues and aspects to be focused in rehabilitation works. Mr. Mustafa Ujjan in detail briefed the GB members about rehabilitation works in general. FO GB members discussed different issues regarding rehabilitation works to be carried out. SIDA team also communicated the present members that the possible scope of work may also be discussed with other GB members and farmers in between survey date. At the end of the meeting, the GB members nominated following survey committee members on behalf of FO:

1. Mr. G. Hussain Gahelro
2. Mr. Abbas Ali
3. Mr. Mohammed Ibrahim Chandio
4. Mr. Nawab Ali Chandio
5. Mr. Hamzo Nuckrich
6. Mr. Eidal Nuckrich

Mr. Mustafa Ujjan informed the FO GB members that the survey of Boilo Minor will be conducted on 19/01/2009 at 10:00 AM.

Pre-Walk Through Survey Consultative Meeting with FO Kandiaro Minor

The SIDA's Walk Through Survey Committee members held meeting with the GB members of FO Kandiaro Minor at Village Ghulam Mustafa Bhurgri, Taluka Samaro, District Umerkot for pre-walk through consultation with the GB members of FO on 16/01/2009. The purpose of the meeting was to brief the GB members about the scope of work, environmental & gender aspects and resettlement. Following SIDA officials and FO GB members participated in the meeting:

1. Mr. Jai Ram Deputy Director (I&F) Operation Wing, SIDA
2. Mr. Ali Anwar Chandio Deputy Director, EMU, R&D Wing, SIDA
3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA
4. Ms. Shakeela Leghari Gender Coordinator, SIDA
5. Ms. Zaib Jatoi SDC, SIDA
6. Mr. Rasheed Mahar, Coordinator SMG-SDC, SIDA
7. Mr. Zulfiqar Ali Memon, FTI Umerkot, SMG-SDC, SIDA
8. Mr. Zaman Halepoto GB Member
9. Mr. M. Moosa Shiekh GB Member
10. Mr. Manik Thebo GB Member
11. Mr. M. Usman GB Member
12. Mr. Ghulam Ullah Halepoto GB Member
13. Mr. Meno Halepoto GB Member
14. Mr. Ghulam M. Halepoto GB Member
15. Mr. Bhoro Malh GB Member
16. Mr. M. Ibrahim Halepoto GB Member

Mr. Rasheed Mahar in detailed briefed the GB members about the aims and objectives of the pre-walk through consultative meeting. Mr. Jai Ram in detail briefed the GB members about the scope of rehabilitation works to be carried out on the channel. Mr. Ali Anwar Chandio in detail briefed the participants about the environmental aspects to be focused during the rehabilitation works. Ms. Shakeela Leghari in detail briefed the GB members about the gender issues and aspects to be focused in rehabilitation works. Mr. Mustafa Ujjan in detail briefed the GB members about rehabilitation works in general. FO GB members discussed different issues regarding rehabilitation works to be carried out. SIDA team also communicated the present members that the possible scope of work may also be discussed with other GB members and farmers in between survey date. At the end of the meeting, the GB members nominated following survey committee members on behalf of FO:

1. Mr. M. Zaman Halepoto
2. Mr. Mohammed Moosa Shiekh
3. Mr. Manik Thebo
4. Mr. Bhoro Dahri
5. Mr. M. Khan Dahri
6. Mr. M. Usman

Mr. Mustafa Ujjan informed the FO GB members that the survey of Kandiaro Minor will be conducted on 19/01/2009 at 02:00 PM.

Pre-Walk Through Survey Consultative Meeting with FO Karna Minor

The SIDA's Walk Through Survey Committee members held meeting with the GB members of FO Karna Minor at Village Jatoo Palli, Taluka and District Umerkot for pre-walk through consultation with the GB members of FO on 16/01/2009. The purpose of the meeting was to brief the GB members about the scope of work, environmental & gender aspects and resettlement. Following SIDA officials and FO GB members participated in the meeting:

1. Mr. Jai Ram Deputy Director (I&F) Operation Wing, SIDA
2. Mr. Ali Anwar Chandio Deputy Director, EMU, R&D Wing, SIDA
3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA
4. Ms. Shakeela Leghari Gender Coordinator, SIDA
5. Ms. Zaib Jatoi SDC, SIDA
6. Mr. Rasheed Mahar, Coordinator SMG-SDC, SIDA
7. Mr. Zulfiqar Ali Memon, FTI Umerkot, SMG-SDC, SIDA
8. Mr. Dur Mohammed Palli GB Member
9. Mr. Babu Palli GB Member
10. Mr. Mir Hassan Halepoto GB Member
11. Mr. Inayatullah Palli GB Member
12. Mr. Rehmatullah Palli GB Member
13. Mr. Qadir Bux Palli GB Member
14. Mr. M. Hussain Palli GB Member
15. Mr. Fateh Mohammed Palli GB Member
16. Mr. Noor Mohammed Palli GB Member
17. Mr. Chanesar Palli GB Member

Mr. Rasheed Mahar in detailed briefed the GB members about the aims and objectives of the pre-walk through consultative meeting. Mr. Jai Ram in detail briefed the GB members about the scope of rehabilitation works to be carried out on the channel. Mr. Ali Anwar Chandio in detail briefed the participants about the environmental aspects to be focused during the rehabilitation works. Ms. Zaib Jatoi in detail briefed the GB members about the gender issues and aspects to be focused in rehabilitation works. Mr. Mustafa Ujjan in detail briefed the GB members about rehabilitation works in general. FO GB members discussed different issues regarding rehabilitation works to be carried out. SIDA team also communicated the present members that the possible scope of work may also be discussed with other GB members and farmers in between survey date. At the end of the meeting, the GB members nominated following survey committee members on behalf of FO:

1. Mr. Dur Mohammed Palli
2. Mr. Babu Palli
3. Mr. Mir Hassan Halepoto
4. Mr. Inayatullah Palli
5. Mr. Rehmatullah Palli
6. Mr. Qadir Bux Palli

Mr. Mustafa Ujjan informed the FO GB members that the survey of Karna Minor will be conducted on 20/01/2009 at 10:00 AM.

Pre-Walk Through Survey Consultative Meeting with FO Kunri Distry

The SIDA's Walk Through Survey Committee members held meeting with the GB members of FO Kunri Distry at Village Shahnawaz Junejo, Taluka Kunri, District Umerkot for pre-walk through consultation with the GB members of FO on 16/01/2009. The purpose of the meeting was to brief the GB members about the scope of work, environmental & gender aspects and resettlement. Following SIDA officials and FO GB members participated in the meeting:

1. Mr. Jai Ram Deputy Director (I&F) Operation Wing, SIDA
2. Mr. Ali Anwar Chandio Deputy Director, EMU, R&D Wing, SIDA
3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA
4. Ms. Shakeela Leghari Gender Coordinator, SIDA
5. Ms. Zaib Jatoi SDC, SIDA
6. Mr. Rasheed Mahar, Coordinator SMG-SDC, SIDA
7. Mr. Zulfiqar Ali Memon, FTI Umerkot, SMG-SDC, SIDA
8. Mr. Shahnawaz Junejo GB Member
9. Mr. Asif Gill GB Member
10. Mr. Ali Nawaz Talpur GB Member
11. Mr. M. Tahir Gill GB Member
12. Mr. Naik M. Rind GB Member
13. Mr. Ghulam Mohammed GB Member
14. Mr. Maqsood Awan GB Member

Mr. Rasheed Mahar in detailed briefed the GB members about the aims and objectives of the pre-walk through consultative meeting. Mr. Jai Ram in detail briefed the GB members about the scope of rehabilitation works to be carried out on the channel. Mr. Ali Anwar Chandio in detail briefed the participants about the environmental aspects to be focused during the rehabilitation works. Ms. Shakeela Leghari in detail briefed the GB members about the gender issues and aspects to be focused in rehabilitation works. Mr. Mustafa Ujjan in detail briefed the GB members about rehabilitation works in general. FO GB members discussed different issues regarding rehabilitation works to be carried out. SIDA team also communicated the present members that the possible scope of work may also be discussed with other GB members and farmers in between survey date. At the end of the meeting, the GB members nominated following survey committee members on behalf of FO:

1. Mr. Ali Nawaz Talpur
2. Mr. Shahnawaz Junejo
3. Mr. Asif Gill
4. Mr. M. Tahir Gill
5. Mr. Naik Mohammed Rind
6. Mr. Ghulam Mohammed

Mr. Mustafa Ujjan informed the FO GB members that the survey of Kunri Distry will be conducted on 20/01/2009 at 02:00 PM.

Pre-Walk Through Survey Consultative Meeting with FO Darelo Minor

The SIDA's Walk Through Survey Committee members held meeting with the GB members of FO Darelo Minor at office of Irrigation Sub-Division Nabisar, Taluka Kunri, District Umerkot for pre-walk through consultation with the GB members of FO on 17/01/2009. The purpose of the meeting was to brief the GB members about the scope of work, environmental & gender aspects and resettlement. Following SIDA officials and FO GB members participated in the meeting:

1. Mr. Jai Ram Deputy Director (I&F) Operation Wing, SIDA
2. Mr. Ali Anwar Chandio Deputy Director, EMU, R&D Wing, SIDA
3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA
4. Ms. Shakeela Leghari Gender Coordinator, SIDA
5. Ms. Zaib Jatoi SDC, SIDA
6. Mr. Rasheed Mahar, Coordinator SMG-SDC, SIDA
7. Mr. Zulfiqar Ali Memon, FTI Umerkot, SMG-SDC, SIDA
8. Mr. Tariq Arijio SMG-SDC, SIDA
9. Mr. Ghulam Qadir Khaskheli GB Member
10. Mr. Pir Bux Chandio GB Member
11. Mr. Khair M. Chandio GB Member
12. Mr. Jameel Ahmed GB Member
13. Mr. Jumman Khan Chandio GB Member
14. Mr. M. Arab Chandio GB Member
15. Mr. Shahbaig Chandio GB Member
16. Mr. Gul Zaman Chandio GB Member
17. Mr. Warand Khan Chandio GB Member
18. Mr. Arab Hajjam GB Member
19. Mr. Jan Mohammed Chandio GB Member

Mr. Rasheed Mahar in detailed briefed the GB members about the aims and objectives of the pre-walk through consultative meeting. Mr. Jai Ram in detail briefed the GB members about the scope of rehabilitation works to be carried out on the channel. Mr. Ali Anwar Chandio in detail briefed the participants about the environmental aspects to be focused during the rehabilitation works. Ms. Shakeela Leghari in detail briefed the GB members about the gender issues and aspects to be focused in rehabilitation works. Mr. Mustafa Ujjan in detail briefed the GB members about rehabilitation works in general. FO GB members discussed different issues regarding rehabilitation works to be carried out. SIDA team also communicated the present members that the possible scope of work may also be discussed with other GB members and farmers in between survey date. At the end of the meeting, the GB members nominated following survey committee members on behalf of FO:

1. Mr. Ghulam Qadir Khaskheli
2. Mr. Pir Bux Chandio
3. Mr. Khair Mohammed Chandio
4. Mr. Khan Mohammed Chandio
5. Mr. Jameel Ahmed
6. Mr. Jumman Khan Chandio
7. Mr. M. Arab Chandio
8. Mr. Shahbaig Chandio

Mr. Mustafa Ujjan informed the FO GB members that the survey of Darelo Minor will be conducted on 21/01/2009 at 10:00 AM.

Pre-Walk Through Survey Consultative Meeting with FO Ashabo Minor

The SIDA's Walk Through Survey Committee members held meeting with the GB members of FO Ashabo Minor at FO office at Village Ch. Imtiaz Ahmed Cheema, Taluka Kunri, District Umerkot for pre-walk through consultation with the GB members of FO on 17/01/2009. The purpose of the meeting was to brief the GB members about the scope of work, environmental & gender aspects and resettlement. Following SIDA officials and FO GB members participated in the meeting:

1. Mr. Jai Ram Deputy Director (I&F) Operation Wing, SIDA
2. Mr. Ali Anwar Chandio Deputy Director, EMU, R&D Wing, SIDA
3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA
4. Ms. Shakeela Leghari Gender Coordinator, SIDA
5. Ms. Zaib Jatoi SDC, SIDA
6. Mr. Rasheed Mahar, Coordinator SMG-SDC, SIDA
7. Mr. Zulfiqar Ali Memon, FTI Umerkot, SMG-SDC, SIDA
8. Mr. Tariq Arijio SMG-SDC, SIDA
9. Mr. Imtiaz Ahmed Cheema GB Member
10. Mr. Abdul Haq GB Member
11. Mr. Rano Khan Kapri GB Member
12. Mr. Munir Ahmed GB Member
13. Mr. Munawar Ahmed GB Member
14. Mr. Ashraf GB Member
15. Mr. Noor Ahmed GB Member

Mr. Rasheed Mahar in detailed briefed the GB members about the aims and objectives of the pre-walk through consultative meeting. Mr. Jai Ram in detail briefed the GB members about the scope of rehabilitation works to be carried out on the channel. Mr. Ali Anwar Chandio in detail briefed the participants about the environmental aspects to be focused during the rehabilitation works. Ms. Shakeela Leghari in detail briefed the GB members about the gender issues and aspects to be focused in rehabilitation works. Mr. Mustafa Ujjan in detail briefed the GB members about rehabilitation works in general. FO GB members discussed different issues regarding rehabilitation works to be carried out. SIDA team also communicated the present members that the possible scope of work may also be discussed with other GB members and farmers in between survey date. At the end of the meeting, the GB members nominated following survey committee members on behalf of FO:

1. Mr. Imtiaz Ahmed
2. Mr. Abdul Haq
3. Mr. Rano Khan Kapri
4. Mr. Munir Ahmed

Mr. Mustafa Ujjan informed the FO GB members that the survey of Ashabo Minor will be conducted on 21/01/2009 at 02:00 PM.

Pre-Walk Through Survey Consultative Meeting with FO Khahi Distry

The SIDA's Walk Through Survey Committee members held meeting with the GB members of FO Ashabo Minor at Pithoro Town, Taluka Pithoro, District Umerkot for pre-walk through consultation with the GB members of FO on 17/01/2009. The purpose of the meeting was to brief the GB members about the scope of work, environmental & gender aspects and resettlement. Following SIDA officials and FO GB members participated in the meeting:

1. Mr. Jai Ram Deputy Director (I&F) Operation Wing, SIDA
2. Mr. Ali Anwar Chandio Deputy Director, EMU, R&D Wing, SIDA
3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA
4. Ms. Shakeela Leghari Gender Coordinator, SIDA
5. Ms. Zaib Jatoi SDC, SIDA
6. Mr. Rasheed Mahar, Coordinator SMG-SDC, SIDA
7. Mr. Zulfiqar Ali Memon, FTI Umerkot, SMG-SDC, SIDA
8. Mr. Tariq Arijio SMG-SDC, SIDA
9. Mr. Ghulam Nabi Shah GB Member
10. Mr. Ramchand Khatri GB Member
11. Mr. Manzoor Abro GB Member
12. Mr. Shoukat Panhwar GB Member
13. Mr. Ashiq Hussain Choro GB Member
14. Mr. Abdul Haq Araeen GB Member

Mr. Rasheed Mahar in detailed briefed the GB members about the aims and objectives of the pre-walk through consultative meeting. Mr. Jai Ram in detail briefed the GB members about the scope of rehabilitation works to be carried out on the channel. Mr. Ali Anwar Chandio in detail briefed the participants about the environmental aspects to be focused during the rehabilitation works. Ms. Shakeela Leghari in detail briefed the GB members about the gender issues and aspects to be focused in rehabilitation works. Mr. Mustafa Ujjan in detail briefed the GB members about rehabilitation works in general. FO GB members discussed different issues regarding rehabilitation works to be carried out. SIDA team also communicated the present members that the possible scope of work may also be discussed with other GB members and farmers in between survey date. At the end of the meeting, the GB members nominated following survey committee members on behalf of FO:

1. Mr. Ghulam Nabi Shah
2. Mr. Ramchand Khatri
3. Mr. Manzoor Abro
4. Mr. Shoukat Panhwar
5. Mr. Ashiq Hussain Choro

Mr. Mustafa Ujjan informed the FO GB members that the survey of Ashabo Minor will be conducted on 22/01/2009 at 10:00 AM.

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Boilo Minor
 Name of Br. Canal: Hiral Branch Canal
 Name of Main Canal: Lower Nara Canal
 Sub Division: Farsh
 RD Off Take: RD 40 of Hiral canal
 Total Length in RDs: 8.95
 CCA: 1616 Acres
 Taluka & District: Taluka Samaro, District Umerkot
 Date of Visit: 19/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		Old Slab broken, new slab over HR structure required. Major repair of HR. 50 feet Flank Wall from HR.
2	Cross Regulators		N/A
3	Installation of Gauge		Yes HR and all outlets
4	Jungle Clearance	NIP head to tail RD 0-1, RD-5-5.5 IP	Thick Jungle
5	Restoration/Strengthening of Channel Inspection Path (IP)	Head to tail	Yes
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)	Head to tail	Yes
7	De-silting/ Removal of Spoils from banks	RD-05 to 07	Removal of spoils on NIP side
8	Restoration of Channel Berms / Groynes, Resectioning	RD 0-1	Resectioning of channel at various sections
9	Outlets	W/C # 1R W/C # 1AR W/C # 3-Tail RD-1, RD- 6 RD- 7 & RD- 8	Minor Repair Minor Repair Reconstruction 1 Syphon structure at RD-1and 2 at RD-6 along DOs of Hiral Canal Crossing W/C crossings 1 at RD-7 and 3 at RD-8 along DOs of Hiral Canal
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		N/A
12	New Foot Bridges	RD-2.0	01 No
13	Repair/Rehabilitation of		N/A

	Village Road Bridges		
14	New Village Road Bridges	RD-1, RD 1.5 & RD 4.0	RD-1 VRB along DO of Hiral Canal Crossing
15	RD Markers	At each RD	From head to tail
16	Buffalo Wallows		FO not interested in Buffalo wallows
17	Washing Ghats		2 at RD-1 and 1.500 feet Villages Mohd Ibrahim Chandio and Ch. Ghulam Abbas, 2 at RD-1 + 500 feet Village Ghulam Muhammad Chandio, 1 at the end of RD -2 , 1at RD -6 behind Direct Outlet village Dost Muhammad Mangrio and 1 at Goth Noor Muhamad Nukruj
18	Others		
19	Office Building		Yes but location yet to be decided
20	Office Facilities:		
	I. Office Furniture		Required
	II. Computer with Printer		Required
	III. Office Stationary		Required
21	Tree Plantation		Head to tail

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Kandiari Minor
 Name of Br. Canal: Hiral Branch Canal
 Name of Main Canal: Lower Nara Canal
 Sub Division: Farsh
 RD Off Take: RD 70 of hiral Canal
 Total Length in RDs: 7.27
 CCA: 2738 Acres
 Taluka & District: Taluka Umerkot, District Umerkot
 Date of Visit: 20/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		Gate Replacement, repair of HR. 50 feet Flank Wall from HR.
2	Cross Regulators		N/A
3	Installation of Gauge		At HR & all outlets
4	Jungle Clearance	Head to tail	Thin Jungle
5	Restoration/Strengthening of Channel Inspection Path (IP)	Head to tail	Yes
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)	Head to tail	Yes
7	De-silting/ Removal of Spoils from banks	RD- 05 to 7.27	Yes
8	Restoration of Channel Berms / Groynes, Resectioning	RD 0-1& RD-5	Resectioning and Groynes
9	Outlets	W/C # 1R, 2L, 5L & 6 tail W/C # 3R & 4R	Minor Repair Reconstruction W/C Crossings on all W/Cs
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		N/A
12	New Foot Bridges		N/A
13	Repair/Rehabilitation of Village Road Bridges		N/A
14	New Village Road Bridges	RD-2.0 & RD-6.0	Village Dargah Yar Pir Shah and Village Muhammad Dahri
15	RD Markers	At each RD	From head to tail
16	Buffalo Wallows	RD-6 NIP side	Village Muhammad Dahri
17	Washing Ghats		2 at RD-6+600 ft Village Muhammad

			Dahri
18	Others		
19	Office Building		Yes but location yet to be decided
20	Office Facilities: IV. Office Furniture V. Computer with Printer VI. Office Stationary		Required Required Required
21	Tree Plantation		Head to tail

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Karna Minor
 Name of Br. Canal: Thar Wah
 Name of Main Canal: Lower Nara Canal
 Sub Division: Umerkot
 RD Off Take: RD 55 of thar Canal
 Total Length in RDs: 10.8
 CCA: 2825 Acres
 Taluka & District: Taluka Pithoro, District Umerkot
 Date of Visit: 20/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		HR Structure in worst condition. Reconstruction of HR along with new gates. 50 feet Flank Wall from HR.
2	Cross Regulators		N/A
3	Installation of Gauge		At HR & all outlets
4	Jungle Clearance	NIP head to tail	Thick Jungle
		IP head to tail	Thick Jungle
5	Restoration/Strengthening of Channel Inspection Path (IP)	Head to tail	Yes
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)	Head to tail	NIP common for Karna Minor and Thar Canal
7	De-silting/ Removal of Spoils from banks	Head to tail	Yes
8	Restoration of Channel Berms / Groynes, Resectioning	RD 0-1	Resectioning of channel at various sections
9	Outlets	W/C # 1R, 2R, 3R and 4R	Repair W/C Crossings on all W/Cs
		RD-4	1 Syphon structure at RD-4 along DO of Thar Canal Crossing
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		N/A
12	New Foot Bridges	RD-4.0	
13	Repair/Rehabilitation of Village Road Bridges		N/A

14	New Village Road Bridges		N/A
15	RD Markers	At each RD	From head to tail
16	Buffalo Wallows		One Buffalo Wallow near WC 4R
17	Washing Ghats		along W/C # 1R, 2R, 3R and 4R
18	Others		Escape structure at tail end of Minor to drain out surplus water during Monsoon/slack period
19	Office Building		Yes at Village Jatoo Palli (Land will be donated by the farmers)
20	Office Facilities: VII. Office Furniture VIII. Computer with Printer IX. Office Stationary		Required Required Required
21	Tree Plantation		Head to tail

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Kunri Distry
 Name of Br. Canal: Nabisar
 Name of Main Canal: Mithrao Canal
 Sub Division: Nabisar
 RD Off Take: RD 103 of Nasiar Branch
 Total Length in RDs: 51.5
 CCA: 16514 Acres
 Taluka & District: Taluka Kunri, District Umerkot
 Date of Visit: 20/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		Minor Repair of HR and Gates. Parapit Wall required. 50 feet Flank Wall from HR.
2	Cross Regulators		N/A
3	Installation of Gauge		At HR & all outlets
4	Jungle Clearance	Head to tail RD- 08 to 51.5	NIP Side IP Side
5	Restoration/Strengthening of Channel Inspection Path (IP)	RD- 2 to RD-5 mettalled Road both sides	RD-05 to 51.5
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)		RD-05 to 51.5
7	De-silting/ Removal of Spoils from banks	IP & NIP Sides	RD-05 to 51.5
8	Restoration of Channel Berms / Groynes, Resectioning	Head to Tail	Groynes and Resectioning
9	Outlets	Head to Tail	Reconstruction of WC # 3L, 2R, 2AR, 2BR, 4R, 5L, 5AL, 6R, 6AR, 6BR, 12AR, 9L, 12R, 17BL, 10L & 21L Major Repair of remaining 23 WCs on IP and NIP sides of channel
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		Currently, no any foot bridge structures exist on the channel
12	New Foot Bridges	RD-	
13	Repair/Rehabilitation of Village Road Bridges	RD-04, Kunri Sarmast Road, Naik M. Rind, RD-	05 Nos

		23.48 & RD-35.50	
14	New Village Road Bridges	RD-08, RD-17.22, RD-25.98, RD-34.05	04 Nos
15	RD Markers	Head to Tail	At each RD
16	Buffalo Wallows	RD-23.48, RD-35.50, RD-45.50 & RD-50	04 Nos
17	Washing Ghats	2 at RD-1 near railway line, 1 at RD 2.500 NIP Memon Naka beside Kunri Distry Bridge, 1 at RD- 7 Village Aslam, Saleem , Zafar Arain, 1 RD- 5 Vill: Sher Kahn Chandio, 1 at each W/C # 7A and 7AL, 1 at Junejo Minor on R/S, 1 at RD 23 Village Nek Muhammad Rind, 1 at Rd-35.200 (W/C # 19R) at Haji Hotel stop. 1 at RD- 37 Vill. Abdul hameed (Mirza Moree), 2 at RD 45.5 (W/C # 21 AR)	12 Nos
18	Others		
19	Office Building		Yes but location yet to be decided
20	Office Facilities:		
	X. Office Furniture		Required
	XI. Computer with Printer		Required
	Office Stationary		Required
21	Tree Plantation		Head to tail

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Darelo Minor
 Name of Br. Canal: Main Mithrao Canal
 Name of Main Canal: Mithrao Canal
 Sub Division: Naukot
 RD Off Take:
 Total Length in RDs: 21
 CCA: 10067 Acres
 Taluka & District: Taluka Kunri, District Umerkot
 Date of Visit: 21/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		Major Repair of HR and Gates. 50 feet Flank Wall from HR.
2	Cross Regulators		N/A
3	Installation of Gauge		At HR & all outlets
4	Jungle Clearance	Head to tail	NIP & IP Sides
5	Restoration/Strengthening of Channel Inspection Path (IP)	Head to Tail	Yes
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)	Head to Tail	Yes
7	De-silting/ Removal of Spoils from banks		Spoil Removal from head to tail IP & NIP
8	Restoration of Channel Berms / Groynes, Resectioning	Head to tail	Groynes and Resectioning at different reaches
9	Outlets		Repair of all W/Cs W/C Crossings on all W/Cs
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		N/A
12	New Foot Bridges		FB near Village Lakhon Chandio near W/C # 3, FB near W/C 4 AL, FB near W/C of Arab, FB near Moulvi Salar, FB near Lashari village & DC Qazi (W/C # 6 R), FB near Flour Mill Jan Muhammad, FB near Otaq Gul hassan S/O Abdul Majeed
13	Repair/Rehabilitation of Village Road Bridges		Village Verand Khan to Sher Khan. Parapit wall & slab destroyed
14	New Village Road Bridges	VRB at RD- 2 near Otaq Verand Khan	03 Nos

		Chandio, VRB at double Mori Stop, VRB near village Abdul Hakim near Salah water	
15	RD Markers	At each RD	From head to tail
16	Buffalo Wallows	RD- 1 L/S	Road Double Mori to Dewan Ali Mahajar
17	Washing Ghats	RD-1 at (Double Mori Stop) L/S, 1at RD-1.5 near Double Mori Stop R/S, 1 at RD -4 R/S & 1 near Otaque Verand Khan Chandio R/S, 1 at WC no. 4AL (R/S), 1 at Moulvi Abdul Hakim Chandio R/S, 1 village Allah Obhayo R/S, 1 near Road Bridge R/S, 1 near Villagers Kumbhar R/S and 1 near Otaq Gul Hassan S/O Abdul Majeed	09 Nos
18	Others		
19	Office Building		Yes but location yet to be decided
20	Office Facilities: XII. Office Furniture XIII. Computer with Printer XIV. Office Stationary		Required Required Required
21	Tree Plantation		Head to tail

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Ashabo Minor
 Name of Br. Canal: Nabisar
 Name of Main Canal: Mithrao Canal
 Sub Division: Nabisar
 RD Off Take: RD 60 of Nabisar Branch
 Total Length in RDs: 7.5
 CCA: 4809 Acres
 Taluka & District: Taluka Kunri, District Umerkot
 Date of Visit: 21/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		Major Repair of HR and Gates. CC Block in floor of U/S HR. Retaining wall D/S of HR
2	Cross Regulators		N/A
3	Installation of Gauge		At HR & all outlets
4	Jungle Clearance	Head to Tail	Both sides
5	Restoration/Strengthening of Channel Inspection Path (IP)	Head to Tail	Earthwork required
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)	Head to Tail	Earthwork required
7	De-silting/ Removal of Spoils from banks	Head to Tail	Spoil Removal from head to tail IP & NIP in some reaches. Desilting head to tail
8	Restoration of Channel Berms / Groynes, Resectioning		N/A
9	Outlets		Repair of all W/Cs W/C Crossings on all W/Cs
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		N/A
12	New Foot Bridges		FB near W/C # 3 AR Dargah Akram Malang, near W/C # 2L (before)
13	Repair/Rehabilitation of Village Road Bridges		Construction of Parapit wall both sides near village Choudhary Manzoor Ahmed (b/w W/C # 3 AR and 4L)
14	New Village Road Bridges		VRB near village Wadero Sadeeq & village Amir Ali. VRB 1 RD below W/C # 4-L b/w village Cheema Form and Ghora Bund
15	RD Markers	At each RD	From head to tail

16	Buffalo Wallows	RD- 1 L/S	Yet to be decided
17	Washing Ghats		1at Choudhary Wadero Muhammad Sidique and 1 at village Jaiso Malhi
18	Others		
19	Office Building		Yes, FO Office at Cheema Form (Land will be donated by the farmers)
20	Office Facilities: XV. Office Furniture XVI. Computer with Printer XVII. Office Stationary		Required Required Required
21	Tree Plantation		Head to tail

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Khahi Distry
 Name of Br. Canal: Khipro
 Name of Main Canal: Nara Canal
 Sub Division: Khipro
 RD Off Take: RD 249 of Khipro Canal
 Total Length in RDs: 53.5
 CCA: 26070 Acres
 Taluka & District: Taluka Khipro & Pithoro, District Sanghar & Umerkot
 Date of Visit: 22/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		Repair of HR and Replacement of Gates. CC Block in floor of U/S HR. Retaining wall D/S of HR
2	Cross Regulators		N/A
3	Installation of Gauge		At HR & all outlets
4	Jungle Clearance	Head to Tail	Both sides
5	Restoration/Strengthening of Channel Inspection Path (IP)	Head to Tail	Earthwork required
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)	Head to Tail	Earthwork required
7	De-silting/ Removal of Spoils from banks		Spoil Remaoval both sides RD 0 to 9, RD 9 to 24 NIP and RD 35 to 40 both sides, RD 40-45 (IP), RD 46 to tail both sides. Desilting at some reaches
8	Restoration of Channel Berms / Groynes, Resectioning		N/A
9	Outlets	Head to Tail	Reconstruction of all W/Cs W/C Crossings on all W/Cs
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		N/A
12	New Foot Bridges		FB at RD- 5 (W/C # 1-CR) Village Khan Bux Mari, FB RD- 7 near village Kolhi & village Murad Ali Mari, FB RD- 8 village Faqir Muhammad Mari, FB RD- 13 village Kamal Khaskheli, FB Rd- 15 village Muhammad Hashim Mari & village Khuda Bux Daras, FB RD- 22 village Shaukat, FB RD- 24 village Allah Bachayo Panhwar, FB RD- 31 village Haji Laghari, FB RD- 35 village Haji

			Ahmed Nohri & haji Umed Nohri, FB Rd- 42 (W/C # 20-L, FB RD- 45
13	Repair/Rehabilitation of Village Road Bridges		VRB RD- 10 Ellahi Mori, VRB RD- 17 village Muhammad Ismail Mari (Parapit wall construction), VRB RD- 20 village Haji Fateh Ali Rajar, VRB RD- 25, VRB RD- 32
14	New Village Road Bridges		N/A
15	Fall Structure		Repair of Fall Structure at RD- 42 and 46
16	RD Markers	At each RD	From head to tail
17	Buffalo Wallows	RD- 1 L/S	Village Kamal Khaskheli
18	Washing Ghats		1at RD-7 in the start of RD on L/S village comrade versi kolhi, 1at RD-10 on L/S village Haji Hashim Ilachi, 1 at RD-13 on R/S, 1at RD -21 at the end of RD on L/S, 2 at RD -22 village Shoukat Panhwar on L/S, 1 at RD-24 village Allah Bachayo Panhwar R/S, 2 at RD-34 village Yousuf Kumbhar and Haji Leghari, 2 at Moree Kolhi (Mori stop), 1at RD-35 at the end village Haji Mohammad Nohri
19	Others		
20	Office Building		Yes, but location yet to be decided
21	Office Facilities: XVIII. Office Furniture XIX. Computer with Printer XX. Office Stationary		Required Required Required
22	Tree Plantation		Head to tail

**WATER SECTOR IMPROVEMENT PROJECT SINDH (WSIP PHASE-I)
WALKTHROUGH SURVEY OF FO MANAGED CHANNEL IN NCAWB**

Name of Channel: Pithoro Minor
 Name of Br. Canal: Khahi Distry
 Name of Main Canal: Nara Canal
 Sub Division: Khipro
 RD Off Take: RD 35.18 of Khahi Distry
 Total Length in RDs: 18.5
 CCA: 3786 Acres
 Taluka & District: Taluka Pithoro, District Umerkot
 Date of Visit: 22/01/2009

S. No.	Type of Work	Reach/RD	Proposed Action
1	Head Regulator		Repair of HR and Gate. 25 feet Flank Wall from HR.
2	Cross Regulators		N/A
3	Installation of Gauge		At HR & all outlets
4	Jungle Clearance	Head to tail	Both sides
5	Restoration/Strengthening of Channel Inspection Path (IP)		Earthwork required
6	Restoration/Strengthening of Channel Non Inspection Path (NIP)		Earthwork required
7	De-silting/ Removal of Spoils from banks		Spoil Removal both sides RD 0 to tail. Desilting head to tail
8	Restoration of Channel Berms / Groynes, Resectioning		N/A
9	Outlets		Full rehabilitation of all W/Cs W/C Crossings on all W/Cs
10	Construction of Measuring Section		Yes
11	Repair/Rehabilitation of Foot Bridges		N/A
12	New Foot Bridges		FB Rd- 3 village Jafar Leghari, FB RD- 4 near village Ali Muhammad Leghari & Hashim Mangrio, FB RD- 5.670 over Fall Structure and FB Rd- 10 village Haji Karm Dino
13	Repair/Rehabilitation of Village Road Bridges		N/A
14	New Village Road Bridges		N/A
15	RD Markers	At each RD	From head to tail
16	Buffalo Wallows		
17	Washing Ghats		
18	Others		

19	Office Building		Not required because sub system of FO Khahi Distry
20	Office Facilities: XXI. Office Furniture XXII. Computer with Printer XXIII. Office Stationary		Not Required (Being the part of FO Khahi minor) Not Required Not Required
21	Tree Plantation		Head to tail

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I) RESETTLEMENT ISSUES

Name of Area Water Board: Nara Canal Area Water Board (NCAWB)
Name of Channel: Boilo Minor
Date of Survey: 19/01/2009

S. No.	Location /RD	I.P. / N.I.P.	Type of Settlement House/Hotel/Shop/Cabin	Construction Pacca/ Katcha	Covered Area	Remarks
1	RD-00 Head	IP Side	Shop – Cold Drink	Katcha	200 sq ft	Mr. Hassan Chandio
2	RD-00 Head	IP Side	Shop	Katcha	100 sq ft	Mr. M. Raheem Chandio
3	RD-00 Head	IP Side	Tea Stall	Katcha	200 sq ft	Mr. Bahadur Chandio
4	RD-00 Head	IP Side	Clinic	Katcha	120 sq ft	Mr. Dost M. Chandio
5	RD-00 Head	IP Side	Atta Chaki	Katcha	120 sq ft	Mr. M. Raheem Chandio
6	RD-00 Head	IP Side	Poultry Farm	Katcha	800 sq ft	Mr. M. Raheem Chandio

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I) RESETTLEMENT ISSUES

Name of Area Water Board: Nara Canal Area Water Board (NCAWB)
Name of Channel: Kandiara Minor
Date of Survey: 19/01/2009

S. No.	Location /RD	I.P. / N.I.P.	Type of Settlement House/Hotel/Shop/Cabin	Construction Pacca/ Katcha	Covered Area	Remarks
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I) RESETTLEMENT ISSUES

Name of Area Water Board: Nara Canal Area Water Board (NCAWB)
Name of Channel: Karna Minor
Date of Survey: 20/01/2009

S. No.	Location /RD	I.P. / N.I.P.	Type of Settlement House/Hotel/Shop/Cabin	Construction Pacca/ Katcha	Covered Area	Remarks
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I) RESETTLEMENT ISSUES

Name of Area Water Board: Nara Canal Area Water Board (NCAWB)
Name of Channel: Kunri Distry
Date of Survey: 20/01/2009

S. No.	Location /RD	I.P. / N.I.P.	Type of Settlement House/Hotel/Shop/Cabin	Construction Pacca/ Katcha	Covered Area	Remarks
1	200 ft from HR	NIP	Mazar / imam bargah	Pucca	300 sq.ft	Shrine of Ahmed Shah
2	RD. 1.00	NIP	5 House	Semi Katcha	1000 sqft	Houses of Chandios located in the toe of the channel
3	RD 23.5	IP	Shop	Katcha	100	
4	RD 23.5	IP	Shop	Katcha	100	
5	RD 23.5	IP	Shop	Katcha	100	
7	RD 23.5	IP	Shop	Katcha	100	
8	RD 23.6	IP	Tea stall	Katcha	200	
9	RD 23.5	IP	Shop	Katcha	100	
10	RD 23.5	IP	Shop	Katcha	100	
11	RD 23.5	IP	Shop	Katcha	100	
12	RD 23.6	IP	Tea stall	Katcha	200	
13	RD 35.21	IP	Shop	Katcha	100	Haji Hotel Stop
15	RD 35.21	IP	Shop	Katcha	100	Haji Hotel Stop
16	RD 35.21	IP	Shop	Katcha	100	Haji Hotel Stop
17	RD 35.21	IP	Shop	Katcha	100	Haji Hotel Stop
18	RD 35.21	IP	Shop	Katcha	100	Haji Hotel Stop
19	RD 35.5	IP	Shop	Katcha	100	Haji Hotel Stop
20	RD 35.6	IP	Tea stall	Katcha	200	Haji Hotel Stop
20	RD 35.6	IP	Tea stall	Katcha	200	Haji Hotel Stop
	RD 45.5	IP	Shop	Katcha	100	Mir Mori Stop
	RD 45.5	IP	Shop	Katcha	100	Mir Mori Stop
	RD 45.5	IP	Shop	Katcha	100	Mir Mori

						Stop
	RD 45.5	IP	Shop	Katcha	100	Mir Mori Stop
	RD 45.5	IP	Tea stall	Katcha	200	Mir mori stop

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I) RESETTLEMENT ISSUES

Name of Area Water Board: Nara Canal Area Water Board (NCAWB)
 Name of Channel: Darelo Minor
 Date of Survey: 21/01/2009

S. No.	Location /RD	I.P. / N.I.P.	Type of Settlement House/Hotel/Shop/Cabin	Construction Pacca/ Katcha	Covered Area	Remarks
1	RD-01 Double Mori	NIP Side	Shop	Katcha	100 sq ft	Mr. G. Mohd Chandio
2	RD-01 Double Mori	IP Side	Shop	Katcha	100 sq ft	Mr. Shahnawaz Chandio
3	RD-01 Double Mori	IP Side	Tyre Shop	Katcha	80 sq ft	Mr. Aziz Chandio
4	RD-01 Double Mori	IP Side	Masjid (Aqsa)	Pacca	1000 sq ft	Molvi A. Majeed Chandio
5	RD-01 Double Mori	IP Side	Tea Stall	Katcha	120 sq ft	Mr. M. Ismaeel Chandio
6	RD-01 Double Mori	IP Side	Tea Stall	Katcha	120 sq ft	Mr. Guloo Korai
7	Head Reach – Otaq Raees Warand Khan Chandio	NIP Side	04 Houses	Katcha	5000 sq ft	Part of houses fall within the Dhaka land of channel
8	Middle Reach – Darelo Mori	IP Side	Tea & Pakora Stall	Katcha	200 sq ft	Mr. Younis Chandio
9	Middle Reach – Darelo Mori	IP Side	Shop & Tea Stall	Katcha	160 sq ft	Mr. Haji Lashari
10	Middle Reach – Darelo Mori	IP Side	Shop	Katcha	120 sq ft	Mr. Padmo Kolhi
11	Middle Reach – Darelo	NIP Side	Shop	Katcha	120 sq ft	Mr. Abbas Chandio

	Mori					
12	Middle Reach – Darelo Mori	NIP Side	Tea Stall	Katcha	160 sq ft	Mr. Porho Alias Jeevan Chandio
13	Middle Reach – Darelo Mori	NIP Side	Atta Chaki	Katcha	120 sq ft	Mr. G. Mustafa Chandio
14	Middle Reach – Darelo Mori	NIP Side	Clinic	Katcha	160 sq ft	Mr. Dari Khan Chandio
15	Middle Reach – Darelo Mori	NIP Side	Shop & Medical Store	Pacca	200 sq ft	Mr. Lakho Kolhi
16	Middle Reach – Darelo Mori	NIP Side	Shop	Katcha	120 sq ft	Mr. Dilbar Chandio
17	Middle Reach – Darelo Mori	IP Side	Tea Stall	Katcha	160 sq ft	Mr. Jahangir Chandio
18	Middle Reach – Darelo Mori	NIP Side	Shop + Clinic	Pacca	200 sq ft	Mr. Piaro Khan Chandio
19	Middle Reach – Darelo Mori	NIP Side	Shop	Pacca	120 sq ft	Mr. Attaullah Chandio
20	Middle Reach – Darelo Mori	NIP Side	Shop	Pacca	120 sq ft	Mr. Haji Chandio
21	Middle Reach – Darelo Mori	NIP Side	Clinic	Pacca	120 sq ft	Mr. Aqul Dar Chandio
22	Middle Reach – Darelo Mori	NIP Side	Shop	Pacca	120 sq ft	Mr. Jameel Chandio
23	Middle Reach – Darelo Mori	NIP Side	Atta Chaki	Katcha	150 sq ft	Mr. Ali Murad Chandio

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I) RESETTLEMENT ISSUES

Name of Area Water Board: Nara Canal Area Water Board (NCAWB)
Name of Channel: Ashabo Minor
Date of Survey: 22/01/2009

S. No.	Location /RD	I.P. / N.I.P.	Type of Settlement House/Hotel/Shop/Cabin	Construction Pacca/ Katcha	Covered Area	Remarks
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I) RESETTLEMENT ISSUES

Name of Area Water Board: Nara Canal Area Water Board (NCAWB)
Name of Channel: Khahi Distry
Date of Survey: 22/01/2009

S. No.	Location /RD	I.P. / N.I.P.	Type of Settlement House/Hotel/Shop/Cabin	Construction Pacca/ Katcha	Covered Area	Remarks
1	RD-00 Head	IP Side	Shop	Katcha	100 sq ft	Mr. Sardar Ali Mari
2	RD-00 Head	IP Side	Cabin	Wooden	24 sq ft	Mr. Zulfiqar Ali Mari
3	Head Reach – Village Luqman Rajar	IP Side	04 Houses	Katcha	4000 sq ft	
4	Head Reach – Village Luqman Rajar	IP Side	Shop + Kanta	Katcha	120 sq ft	Mr. Versi
5	RD-20-35	IP & NIP Side	Seed Growing Nurseries			IP and NIP side is occupied by various farmers and local people for seed growing nurseries of onion and red chili

WATER SECTOR IMPROVEMENT PROJECT (WSIP-I)

ENVIRONMENTAL ISSUES

1 NAME OF CHANNEL

BOILO MINOR

	POTENICAL ENVIRONMENTAL IMPACT/ REHABILITATION OF DISTRIBUTARIES & MINORS	
	i) Excavated earth/silt	Impact
	ii) Borrow pits	Impact
	iii) Tree cutting	Impact
	iv) Dust, construction waste, noise etc due to traffic	Impact
	v)Change in surface& gorundwater quantity quality	No Impact
	vi) Impact on land productivity	No Impact
	vii) Impact on wetlands, protected areas	No Impact
	viii) Impact on aquatic life & Terrestrial life	Impact
	Washing of clothes in the distributaries/minors Buffaloes crossing etc	Deterioration of drinking water
	Increase agricutture activity	Possible increase in use of chemical & pesticide
	Wastewater & Drainage water	No Impact
		Kandiaro Minor
2	POTENICAL ENVIRONMENTAL IMPACT/ REHABILITATION OF DISTRIBUTARIES & MINORS	
	i) Excavated earth/silt	Impact
	ii) Borrow pits	Impact
	iii) Tree cutting	Impact
	iv) Dust, construction waste, noise etc due to traffic	Impact
	v)Change in surface& gorundwater quantity quality	No Impact
	vi) Impact on land productivity	No Impact
	vii) Impact on wetlands, protected areas	No Impact
	viii) Impact on aquatic life & Terrestrial life	Impact
	Washing of clothes in the distributaries/minors Buffaloes crossing etc	Deterioration of drinking water
	Increase agricutture activity	Possible increase in use of chemical & pesticide
	Wastewater & Drainage water	No Impact

3		Karna Minor	
	POTENICAL ENVIRONMENTAL IMPACT/ REHABILITATION OF DISTRIBUTARIES & MINORS		
	i) Excavated earth/silt		Impact
	ii) Borrow pits		Impact
	iii) Tree cutting		Impact
	iv) Dust, construction waste, noise etc due to traffic		Impact
	v) Change in surface & groundwater quantity quality		No Impact
	vi) Impact on land productivity		No Impact
	vii) Impact on wetlands, protected areas		No Impact
	viii) Impact on aquatic life & Terrestrial life		Impact
	Washing of clothes in the distributaries/minors Buffaloes crossing etc		Deterioration of drinking water
	Increase agriculture activity		Possible increase in use of chemical & pesticide
	Wastewater & Drainage water		No Impact
4		Kunri Distry	
	POTENICAL ENVIRONMENTAL IMPACT/ REHABILITATION OF DISTRIBUTARIES & MINORS		
	i) Excavated earth/silt		Impact
	ii) Borrow pits		Impact
	iii) Tree cutting		Impact
	iv) Dust, construction waste, noise etc due to traffic		Impact
	v) Change in surface & groundwater quantity quality		No Impact
	vi) Impact on land productivity		No Impact
	vii) Impact on wetlands, protected areas		No Impact
	viii) Impact on aquatic life & Terrestrial life		Impact
	Washing of clothes in the distributaries/minors Buffaloes crossing etc		Deterioration of drinking water
	Increase agriculture activity		Possible increase in use of chemical & pesticide
	Wastewater & Drainage water		No Impact
5		Darelo Minor	
	POTENICAL ENVIRONMENTAL IMPACT/ REHABILITATION OF DISTRIBUTARIES & MINORS		
	i) Excavated earth/silt		Impact
	ii) Borrow pits		Impact
iii) Tree cutting		Impact	

	iv) Dust, construction waste, noise etc due to traffic		Impact
	v) Change in surface & groundwater quantity quality		No Impact
	vi) Impact on land productivity		No Impact
	vii) Impact on wetlands, protected areas		No Impact
	viii) Impact on aquatic life & Terrestrial life		Impact
	Washing of clothes in the distributaries/minors Buffaloes crossing etc		Deterioration of drinking water
	Increase agriculture activity		Possible increase in use of chemical & pesticide
	Wastewater & Drainage water		No Impact
6		Ashabo minor	
	POTENTIAL ENVIRONMENTAL IMPACT/ REHABILITATION OF DISTRIBUTARIES & MINORS		
	i) Excavated earth/silt		Impact
	ii) Borrow pits		Impact
	iii) Tree cutting		Impact
	iv) Dust, construction waste, noise etc due to traffic		Impact
	v) Change in surface & groundwater quantity quality		No Impact
	vi) Impact on land productivity		No Impact
	vii) Impact on wetlands, protected areas		No Impact
	viii) Impact on aquatic life & Terrestrial life		Impact
	Washing of clothes in the distributaries/minors Buffaloes crossing etc		Deterioration of drinking water
	Increase agriculture activity		Possible increase in use of chemical & pesticide
	Wastewater & Drainage water		No Impact
7		Khahi Disty / Pithoro Minor	
	POTENTIAL ENVIRONMENTAL IMPACT/ REHABILITATION OF DISTRIBUTARIES & MINORS		
	i) Excavated earth/silt		Impact
	ii) Borrow pits		Impact
	iii) Tree cutting		Impact
	iv) Dust, construction waste, noise etc due to traffic		Impact
	v) Change in surface & groundwater quantity quality		No Impact
	vi) Impact on land productivity		No Impact
	vii) Impact on wetlands, protected areas		No Impact
	viii) Impact on aquatic life & Terrestrial life		Impact

Washing of clothes in the distributaries/minors Buffaloes crossing etc		Deterioration of drinking water
Increase agriculture activity		Possible increase in use of chemical & pesticide
Wastewater & Drainage water		No Impact

World Bank Environmental and Social Safeguard Policies applicable to the sub projects under WISIP

The contract specific environmental and social issues as per the provisions of World Bank guide lines and frameworks needs to be assessed and analyzed in detail by the consultants and relevant plans have to be prepared.

Summary Chart Policy Environmental Assessment

Key Features

Trigger: Any project with potential environmental and social impacts

- Potential environmental consequences of project identified early in project cycle – projects categorized as A (significant impacts); B (limited impacts); C (no impacts); FI (Financial Intermediary)
- Environmental Assessments (EAs) and mitigation plans are required for projects with significant environmental impacts or involuntary resettlement
- EAs should include analysis of alternative designs and sites or consideration of “no option”
- Requires public consultation with and information disclosure to affected communities and NGOs before World Bank Board approval; at least two public consultations with affected communities are required for category A projects

Required document: Environmental Assessment (EA) for category A and B projects

Natural Habitats

Trigger: Potential to cause significant loss or degradation of natural habitat

- Prohibits financing of projects involving “significant conversion of natural habitats unless there are no feasible alternatives
- Requires environmental cost/benefit analysis
- Requires EA with mitigation measures

Forestry

Required document: issues and mitigation measures included in EA

Trigger: projects that impact the health and quality of forests; projects that affect the rights and welfare of people dependent upon forests; projects that change the management and use of forests

- Discourages financing of projects that significantly convert natural habitats and critical forest areas unless there are no feasible alternatives
- Projects cannot contravene international environmental agreements and conventions
- For industrial-scale commercial harvesting, the harvesters must be certified by a third party as meeting standards of responsible forest management or agree to a time-bound phased action plan that can meet such standards
- Local people must be involved in developing standards for certification
- Prohibits financing for commercial logging operations or acquisition of equipment for use in primary moist tropical forests

Required documents: forestry issues included in EA, time-bound action plans included in Project Appraisal Document (PAD)

Pest Management

Trigger: Purchase, manufacture, transport, use and changed use of pesticides

- Supports environmentally sound pest management, including integrated pest management
- Will not finance the purchase of some pesticides, especially WHO classes IA and IB and formulations of Class II if the country lacks restrictions on their distribution and people using them are untrained
- Pest management is the borrower’s responsibility in the context of a project’s EA
- Applies to agriculture and health projects

Required documents: Integrated Pest Management Plan (IPM) to be included in EA; guidelines and restricted purchases and use included in EA

Involuntary Resettlement

Trigger: involuntary land acquisition resulting in relocation or loss of shelter, loss of assets or access to assets, or loss of livelihood; restrictions on access to parks or protected areas that result in adverse impacts on people

- Compensates people for lost land and lost livelihoods
- Requires public participation in resettlement planning
- Requires disclosure of resettlement plan in a form and language accessible to affected people
- Intended to restore or improve income-earning capacity of displaced people

Required document: Resettlement Plan

Indigenous Peoples

Trigger: projects impacting (positively or negatively) indigenous peoples and/or minority groups

- Tries to ensure indigenous peoples benefit from Bank-financed development and to avoid or mitigate adverse impacts on indigenous peoples
- Requires participation of indigenous peoples in creation of “indigenous peoples development plans”

Cultural Property

Required document: Indigenous Peoples Development Plan

Trigger: Risk of damage to non-replicable cultural property encompassing remains from human inhabitants and unique natural environment features

- Assists in the preservation of cultural property including sites of archeological, historical, religious, and cultural value
- Assists in preservation of sites and avoids their elimination
- Discourages financing of projects that will damage cultural property

Safety of Dams

Required document: issues and mitigation measures included in EA

Trigger: Dam construction or reliance upon an existing dam higher than 15 meters

- Requires review by independent experts throughout project cycle
- Requires preparation of EA and detailed plans for construction and operation and periodic inspection by the Bank

Projects on International Waterways

Required documents: EA; Plan for construction supervision and quality assurance; instrumentation plan; operation and maintenance plan; emergency preparedness plan

Trigger: projects on waterways affecting water flows to neighboring states

- Covers riparian waterways that form a boundary between two or more states as well as any bay, gulf, strait or channel bordered by two or more states
- Applies to dams, irrigation, flood control, navigation, water, sewage and industrial projects

Projects in Disputed Areas

Required documents: requires notification of project, detailed maps, feasibility studies, and agreement between states that the project can go ahead

Trigger: proposed Bank support of a project in an area disputed by two or more governments

- Applies to projects in areas of territorial dispute
- Allows Bank to proceed if governments agree to go forward without prejudice to claims
- Requires early identification of territorial disputes and descriptions in all Bank documentation

Required document: the dispute and agreements of the parties are detailed in the Project Appraisal Document (PAD)

Sindh Water Sector Improvement Project (WSIP-1)
SINDH IRRIGATION & DRAINAGE AUTHORITY (SIDA)

A- Standard Operation Procedure & Guideline for identifying Distributary / Minor Works

2. At the very out set the SIDA/Consultants will undertake joint walk-through survey through a notified survey team with equal representation from FOs / Farmers. In which all the actors in rehabilitation works will be involved, for this a team has already been constituted by SIDA vide notification no. SIDA/FAP/WSIP-1/2184, Dated: Dec 19,2008 for initial contracts.
 - a) Form & notify joint walkthrough survey team formation and notification
 - b) Hold Pre-Walkthrough Survey Consultative meetings with FO/WCA/Forming Communities including small / tail & Women farmer
 - c) Finalize walkthrough schedules with consent of all members and dissemination to all stakeholders. This will start within 3-5 days of consultative meeting.
 - d) Develop of walkthrough proforma and awareness and in-house training session of survey team for filling the proforma.
 - e) Undertake walkthrough survey by the team. Survey will be completed within 1-3 days depending on the length of the channel. The survey will include physical conditions, hydraulic structures and community infrastructures etc.
 - f) Undertake initial environment and social assessment and development and documentation of base lines.
 - g) Hold post walkthrough meeting for sharing of results of survey. Results will be shared with stakeholders on prescribed proforma.
 - h) Finalize of the scope of works identified during survey and signing of report by all members and its circulation to stakeholder.
 - i) Undertake detail technical survey for designing and cost estimation and preparation of bidding document. This will be done within 7 days of post walkthrough meeting with community.
 - j) Prepare bidding document converging BoQ items, cost estimates, necessary drawings and maps etc. the bidding document should include signed walkthrough survey report.

B- Standard Operation Procedure & Guidelines for Awarding and Management of Community Based Contracts (CBCs)

2. Post survey works by Consultants:
 - a) Preparation of draft contract agreement based on bidding document
 - b) Submission of agreement copy to SIDA & FO by consultants
 - c) Mutually agree with the terms and condition of the contract between SIDA & FO
 - d) Submission of document to World Bank to approval (as first case as per procurement policy)
 - e) Signing of agreement with FO after receiving NOL from Bank (if necessary)
 - f) Release of mobilization advance

- g) Before the implementation of works, FO will be given training on the contract and environment management
- h) Award / Start of Work

3. A monthly planning and review meeting of FOs and consultants shall be held by Managing Director and Project Director SIDA to review the progress to address the bottlenecks and issues risen there to.
4. The standard operating procedure for payment to FOs and Contractors should be followed as per Annex-1.
5. No delays in the payments to FOs be accepted, else the responsibility be fixed as per SOP for payment.
6. Consultants should not be paid without the certification of Project Director and Managing Director.
7. The Project Director is the overall In-charge of the project and must regularly monitor the project.
8. The contract between the FOs and SIDA may agree for the payment on the basis of running and not on the basis of milestone, as this has not augured well in the past and FOs have been facing many difficulties due to milestone system of payment.

Participants of Pre-Walk Through Survey Consultative Meetings with FOs for Rehabilitation Works under WSIP-I

S #	Name of Channel	Date of Walk Through	Members of Walk Through Committee	Actual Participants of Walk Through	Absent Members
1	Boilo Minor	16/01/2009	<ol style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. GB Members of FO 6. Representatives of AWB. 	<ol style="list-style-type: none"> 2. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 3. Mr. Ali Anwar Chandio Deputy Director EMU, R&D SIDA 4. Mr. Mustafa Ujjan Group Leader SMG-SDC, SIDA 1. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 2. Ms. Zaib Jatoi SDC SIDA 3. Mr. Rasheed Mahar SMG-SDC, SIDA 4. Mr. Zulfiqar Memon SMG-SDC, SIDA 5. Haji Sohrab Gahelro GB Member 6. Mr. G. Hussain Gahelro GB Member 7. Mr. Abbas Ali GB Member 8. Mr. M. Ibrahim Chandio GB Member 9. Mr. Nawab Chandio GB Member 10. Mr. Hamzo Nuckrich GB Member 11. Mr. Eidal Nuckrich GB Member 	
2	Kandiaro Minor	16/01/2009	<ol style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. GB Members of FO 6. Representatives of AWB. 	<ol style="list-style-type: none"> 2Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 3Mr. Ali Anwar Chandio Deputy Director EMU, R&D SIDA 4Mr. Mustafa Ujjan Group Leader SMG-SDC, SIDA 5Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA 6Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 	Representatives of AWB.

				<p>7Ms. Zaib Jatoi SDC SIDA 8Ms. Zaib Jatoi SDC SIDA 9Mr. Rasheed Mahar SMG-SDC, SIDA 10Mr. Zulfiqar Memon SMG-SDC, SIDA 11Mr. M. Zaman Halepoto GB Member 12Mr. M. Moosa Sheikh GB Member 13Mr. Manik Thebo GB Member 14Mr. M. Usman GB Member 15Mr. Ghulam Ullah Halepoto GB Member 16Mr. Meno Halepoto GB Member 17Mr. Ghulam M. Halepoto GB Member 18Mr. Mubarak Halepoto GB Member 19Mr. Bhoro Malh GB Member 20Mr. M. Ibrahim Halepoto</p>	
3	Karna Minor	16/01/2009	<ol style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. GB Members of FO 6. Representatives of AWB. 	<ol style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Ali Anwar Chandio Deputy Director EMU, R&D SIDA 3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA 4. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 5. Ms. Zaib Jatoi SDC SIDA 6. Mr. Zulfiqar Memon SMG-SDC, SIDA 7. Mr. Dur M. Palli GB Member 8. Mr. Babu Palli GB Member 9. Mr. Mir Halepoto GB Member 10. Mr. Inayatullah Palli GB Member 11. Mr. Rehmatullah Palli GB Member 12. Mr. Qadir Bux Palli GB Member 13. Mr. Abdul Khaliq Saand GB Member 14. Mr. M. Hussain Palli GB Member 15. Mr. Fateh M. Palli GB Member 16. Mr. Noor M. Palli GB Member 	Representatives of AWB.

4	Kunri Distry	16/01/2009	<ol style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. GB Members of FO 6. Representatives of AWB. 	<p>17. Mr. Chanesar Palli GB Member</p> <ol style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Ali Anwar Chandio Deputy Director EMU, R&D SIDA 3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA 4. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 5. Ms. Zaib Jatoi SDC SIDA 6. Mr. Zulfiqar Memon SMG-SDC, SIDA 7. Mr. Shah Nawaz Junejo GB Member 8. Mr. Asif Gill GB Member 9. Mir Ali Nawaz Talpur GB Member 10. Mr. M. Tahir Gill GB Member 11. Mr. Naik M. Rind GB Member 12. Mr. Ghulam Mohammed GB Member 13. Mr. Maqbool Awan GB Member 	Representatives of AWB.
5	Darelo Minor	17/01/2009	<ol style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. GB Members of FO 6. Representatives of AWB. 	<ol style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Ali Anwar Chandio Deputy Director, EMU R&D Wing SIDA 3. Mr. Mustafa Ujjan Group Leader SMG-SDC, SIDA 4. Mr. Rasheed Mahar, SMG-SDC, SIDA 5. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 6. Ms. Zaib Jatoi SDC SIDA 7. Mr. Zulfiqar Memon SMG-SDC, SIDA 8. Mr. Tariq Arijio SMG-SDC, SIDA 9. Mr. G. Qadir Khaskheli GB Member 10. Mr. Pir Bux Chandio GB Member 11. Mr. Khair M. Chandio GB Member 12. Mr. Khan M. Chandio GB Member 	Representatives of AWB.

				<ul style="list-style-type: none"> 13. Mr. Jameel Ahmed GB Member 14. Mr. Jumman Khan Chandio GB Member 15. Mr. M. Arab Chandio GB Member 16. Mr. Shahbaig Chandio GB Member 17. Mr. Gul Zaman Chandio GB Member 18. Mr. Warand Khan Chandio GB Member 19. Mr. Arab Hajjam GB Member 20. Mr. Jan M. Chandio GB Member 	
6	Ashabo Minor	17/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. GB Members of FO 6. Representatives of AWB. 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr Ali Anwar Chandio Deputy Director, EMU R&D Wing SIDA 3. Mr. Mustafa Ujjan Group Leader SMG-SDC, SIDA 4. Mr. Rasheed Mahar, SMG-SDC, SIDA 5. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 6. Ms. Zaib Jatoi SDC SIDA 7. Mr. Zulfiqar Memon SMG-SDC, SIDA 8. Mr. Tariq Arijio SMG-SDC, SIDA 9. Mr. Imtiaz Ahmed Cheema GB Member 10. Mr. Abdul Haq GB Member 11. Mr. Rano Khan Kapri GB Member 12. Mr. Munir Ahmed GB Member 13. Mr. Munawar Ahmed GB Member 14. Mr. Ashraf GB Member 15. Mr. Noor Mohammed GB Member 	Representatives of AWB.
7	Khahi Distry	17/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Mustafa Ujjan Group Leader SMG-SDC, SIDA 3. Mr Ali Anwar Chandio Deputy Director, EMU R&D Wing SIDA 	Representatives of AWB.

			<ul style="list-style-type: none"> 5. GB Members of FO 6. Representatives of AWB. 	<ul style="list-style-type: none"> 4. Mr. M. Aslam Kaimkhani AEN Khipro Sub-Division, NCAWB 5. Mr. Rasheed Mahar, SMG-SDC, SIDA 6. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 7. Ms. Zaib Jatoi SDC SIDA 8. Mr. Zulfiqar Memon SMG-SDC, SIDA 9. Mr. Tariq Arijo SMG-SDC, SIDA 10. Mr. G. Nabi Shah GB Member 11. Mr. Ramchand Khatri GB Member 12. Mr. Manzoor Abro GB Member 13. Mr. Shoukat Panhwar GB Member 14. Mr. Ashiq Hussain Chorro GB Member 15. Mr. Abdul Haq Araeen GB Member 	
--	--	--	---	--	--

Annex-3

Participants of Walk Through Survey of Channels for Rehabilitation Works under WSIP-I

S #	Name of Channel	Date of Walk Through	Members of Walk Through Committee	Actual Participants of Walk Through	Absent Members
1	Boilo Minor	19/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. Representative of NCAWB 6. Representative of NCAWB 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Asghar Mahesar Deputy Director EMU, R&D SIDA 3. Mr. Nazeer Memon SDS/DGM, Transition, SIDA 4. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA 5. Ms. Shakeela Leghari 	

			<ul style="list-style-type: none"> 7. Representative of FO 8. Representative of FO 9. Representative of FO 10. Representative of FO 	<ul style="list-style-type: none"> Gender Coordinator, SDC SIDA 6. Ms. Zaib Jatoi SDC SIDA 7. Mr. Rasheed Mahar SMG-SDC, SIDA 8. Mr. Zulfiqar Memon SMG-SDC, SIDA 9. Mr. Javed Memon Sub-Engineer NCAWB 10. Mr. Ghani Mahar Darogha NCAWB 11. Mr. G. Hussain Gahelro Rep. of FO 12. Mr. Abbas Ali Rep. of FO 13. Mr. M. Ibrahim Chandio Rep. of FO 14. Mr. Nawab Chandio Rep. of FO 15. Mr. Hamzo Nuckrich Rep. of FO 16. Mr. Luqman Mahar Rep. of FO 17. Mr. Eidal Nuckrich Rep. of FO 	
2	Kandiaro Minor	19/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. Representative of NCAWB 6. Representative of NCAWB 7. Representative of FO 8. Representative of FO 9. Representative of FO 10. Representative of FO 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Asghar Mahesar Deputy Director EMU, R&D SIDA 3. Mr. Nazeer Memon SDS/DGM, Transition, SIDA 4. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA 5. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 6. Ms. Zaib Jatoi SDC SIDA 7. Mr. Rasheed Mahar SMG-SDC, SIDA 8. Mr. Zulfiqar Memon SMG-SDC, SIDA 9. Mr. Javed Memon Sub-Engineer NCAWB 10. Mr. Ghani Mahar Darogha NCAWB 	

				<ul style="list-style-type: none"> 11. Mr. M. Zaman Halepoto Rep. of FO 12. Mr. M. Moosa Sheikh Rep. of FO 13. Mr. M. Hashim Bhurgri Rep. of FO 14. Mr. Manik Thebo Rep. of FO 15. Mr. M. Usman Rep. of FO 16. Mr. Ghulam Ullah Halepoto Rep. of FO 	
3	Karna Minor	20/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. Representative of NCAWB 6. Representative of NCAWB 7. Representative of FO 8. Representative of FO 9. Representative of FO 10. Representative of FO 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Asghar Mahesar Deputy Director EMU, R&D SIDA 3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA 4. Mr. Mohd Ali Samejo Sub Engr. 5. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 6. Ms. Zaib Jatoi SDC SIDA 7. Mr. Zulfiqar Memon SMG-SDC, SIDA 8. Mr. Dur M. Palli Rep. of FO 9. Mr. Babu Palli Rep. of FO 10. Mr. Mir Halepoto Rep. of FO 11. Mr. Inayatullah Palli Rep. of FO 12. Mr. Rehmatullah Palli Rep. of FO 13. Mr. Qadir Bux Palli Rep. of FO 	
4	Kunri Distry	20/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. Representative of NCAWB 6. Representative of NCAWB 7. Representative of FO 8. Representative of FO 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Asghar Mahesar Deputy Director EMU, R&D SIDA 3. Mr. Mustafa Ujjan Group Leader, SMG-SDC, SIDA 4. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 5. Ms. Zaib Jatoi SDC SIDA 6. Mr. Zulfiqar Memon SMG- 	Representatives of NCAWB

			<ul style="list-style-type: none"> 9. Representative of FO 10. Representative of FO 	<ul style="list-style-type: none"> SDC, SIDA 7. Mr. Shahnawaz Junejo Rep. of FO 8. Mr. Asif Gill Rep. of FO 9. Mir Ali Nawaz Talpur Rep. of FO 10. Mr. M. Tahir Gill Rep. of FO 11. Mr. Naik M. Rind Rep. of FO 12. Mr. Ghulam Mohammed Rep. of FO 	
5	Darelo Minor	21/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. Representative of NCAWB 6. Representative of NCAWB 7. Representative of FO 8. Representative of FO 9. Representative of FO 10. Representative of FO 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Rasheed Mahar, SMG-SDC, SIDA 3. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 4. Mr. Zulfiqar Memon SMG-SDC, SIDA 5. Mr. Tariq Arijo SMG-SDC, SIDA 6. Mr. G. Qadir Khaskheli Rep. of FO 7. Mr. Pir Bux Chandio Rep. of FO 8. Mr. Khair M. Chandio Rep. of FO 9. Mr. Khan M. Chandio Rep. of FO 10. Mr. Jameel Ahmed Rep. of FO 11. Mr. Jumman Khan Chandio Rep. of FO 12. Mr. M. Arab Chandio Rep. of FO 13. Mr. Shahbaig Chandio Rep. of FO 	<ul style="list-style-type: none"> Representatives of AWB Representative of R&D Wing of SIDA (Environment aspects)
6	Ashabo Minor	21/01/2009	<ul style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 	<ul style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Rasheed Mahar, SMG-SDC, SIDA 3. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 	<ul style="list-style-type: none"> Representative of R&D Wing of SIDA (Environment aspects)

			<ol style="list-style-type: none"> 5. Representative of NCAWB 6. Representative of NCAWB 7. Representative of FO 8. Representative of FO 9. Representative of FO 10. Representative of FO 	<ol style="list-style-type: none"> 4. Mr. Sharf Din Bhatti Sub-Engineer NCAWB 5. Mr. Zulfiqar Memon SMG-SDC, SIDA 6. Mr. Tariq Arijio SMG-SDC, SIDA 7. Mr. Imtiaz Ahmed Cheema Rep. of FO 8. Mr. Abdul Haq Rep. of FO 9. Mr. Rano Khan Kapri Rep. of FO 10. Mr. Munir Ahmed Rep. of FO 	
7	Khahi Distry	22/01/2009	<ol style="list-style-type: none"> 1. Representative of Operation Wing SIDA 2. Rep. of R&D Wing of SIDA (Environment aspects) 3. Rep. of Social Cell SIDA (Resettlement issues) 4. Rep. of Social Cell SIDA (Gender aspects) 5. Representative of NCAWB 6. Representative of NCAWB 7. Representative of FO 8. Representative of FO 9. Representative of FO 10. Representative of FO 	<ol style="list-style-type: none"> 1. Mr. Jai Ram Deputy Director (I &F) Operation Wing, SIDA 2. Mr. Mustafa Ujjan Group Leader SMG-SDC, SIDA 3. Mr. M. Aslam Kaimkhani AEN Khipro Sub-Division, NCAWB 4. Mr. Rasheed Mahar, SMG-SDC, SIDA 5. Ms. Shakeela Leghari Gender Coordinator, SDC SIDA 6. Mr. Zulfiqar Memon SMG-SDC, SIDA 7. Mr. Tariq Arijio SMG-SDC, SIDA 8. Mr. G. Nabi Shah Rep. of FO 9. Mr. Ramchand Khatri Rep. of FO 10. Mr. Manzoor Abro Rep. of FO 11. Mr. Shoukat Panhwar Rep. of FO 12. Mr. Ashiq Hussain Chorro Rep. of FO 	Representative of R&D Wing of SIDA (Environment aspects)

VISIT REPORT OF WALKTHROUGH SURVEY

1	NAME OF CHANNEL	PITHORO MINOR	
2	NAME OF OFF-TAKE CHANNEL	KHAHI DISTRY	
3	RD OFF-TAKE	35.00	
4	NAME OF MAIN CANAL	NARA CANAL	
5	SUB DIVISION		
6	TOTAL LENGTH IN RDs	18.5	
7	TOTAL OUTLETS	6	
8	CCA (ACRES)	3786	
9	TALUKA & DISTRICT		
10	DATE OF VISIT	21/01/2009	

S #	ITEM OF WORK	REACH	DETAILS OF WORK
1	HEAD REGULATOR		Repair of HR and Gate.
2	CROSS REGULATOR	-	-
3	INSTALLATION OF GAUGES		At HR & all outlets.
4	JUNGLE CLEARANCE	head to tail.	Both Sides
		-	-
5	DESILTING, REMOVAL OF SPOILS FROM BANKS	-	Spoil Remaoval both sides RD 0 to tail. Desilting head to tail.
6	RESTORATION OF CHANNEL BERMS / GROYNES, RESECTIONING.	-	-
7	RESTORATION / STRENGTHENING OF CHANNEL INSPECTION PATHS.		Earthwork required.
8	RESTORATION / STRENGTHENING OF CHANNEL NON INSPECTION PATHS.		Earthwork required.
9	OUTLET		Full rehabilitation of all W/Cs. W/C Crossings on all W/Cs.
10	CONSTRUCTION OF MEASURING SECTION.		Yes.
11	BUFFALLOW WALLOWS.	RD- 1 L/S.	Village Kamal Khaskheli.
12	WASHING GHATS.	2 at RD-3 on both sides	village Jafar Leghari, 1 at RD-4 village
13	REPAIR / REHABILITATION OF FOOT BRIDGES.	-	-
14	NEW FOOT BRIDGES.		FB Rd- 3 village Jafar Leghari, FB RD- 4 near village Ali Muhammad Leghari & Hashim Mangrio, FB RD- 5.670 over Fall Structure and FB Rd- 10 village Haji Karm Dino.
15	REPAIR / REHABILITATION OF VILLAGE ROAD BRIDGES.	-	
16	NEW VILLAGE ROAD BRIDGES.	-	-
	FALL STRUCTURES		Repair of Fall Structure at RD- 5.670.
17	RD MARKERS	At each RD	From head to tail

