

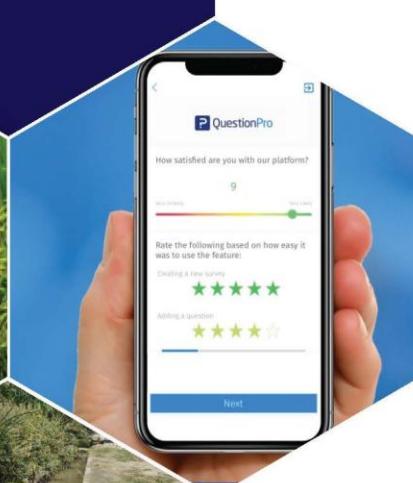
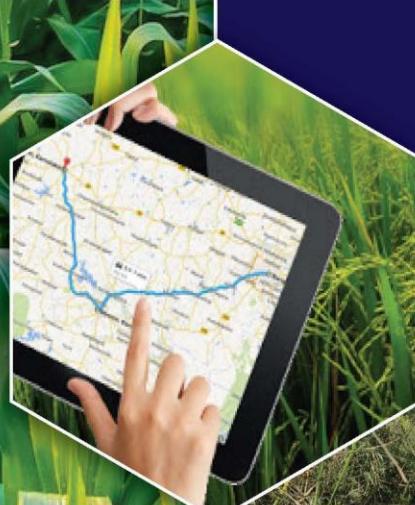


FEDERAL PROJECT MANAGEMENT UNIT
FEDERAL WATER MANAGEMENT CELL
MINISTRY OF NATIONAL
FOOD SECURITY & RESEARCH
ISLAMABAD - PAKISTAN

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION
AND IMPACT EVALUATION
CONSULTANTS

MONITORING TOOLS



A Joint Venture of
G3 Engineering Lead Firm
G3 Consultants (Pvt.) Ltd.





**Federal Project Management Unit (FPMU)
Federal Water Management Cell (FWMC)
Ministry of National Food Security & Research, Islamabad**

Monitoring, Evaluation and Impact Evaluation (ME&IE) Consultants

For

National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)

MONITORING TOOLS

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PREFACE

Different types of data/information are to be collected from various stakeholders to conduct the field surveys through Monitoring Tools. The data collection will be done through TABs / smart phones using an android based application. The collected data from the field will be uploaded to MIS/GIS system online for w and analysis.

WC Monitoring Tool-1

WATERCOURSE IDENTIFICATION

1. IDENTIFICATION		
DB.#	Q.#	Field Name
	1.1	Province/ Unit
	1.2	Division
	1.3	District
	1.4	Tehsil
	1.5	Field Team
	1.6	Union Council
	1.7	Village
	1.8.1	NA Constituency
	1.8.2	PP Constituency
	1.9	Watercourse Name
	1.10	Watercourse Location
	1	Canal Area
	2	Non-Canal Area
		<i>If 'Canal area' in Q.# 1.10 then Continue with Q.# 1.11 Otherwise continue with Q# 1.15</i>
	1.11	Canal
	1.12	Branch
	1.13	Distributary
	1.14	Minor
	1.15	Type Of Water Source
	1	Perennial Canal
	2	Annual Canal
	3	Tube Well
	1.16	Category Of Watercourse To Be Improved
	1	Regular (New)
	2	20 Years Old
	3	Additional Lining
	1.17	Type Of Watercourse
	1	Rectangular/ Bricks
	2	Parabolic
	3	Pvc 3"
	4	Pvc 4"

	5	Rcc Pipe
	6	Stone Masonry
	1.18	Location Of Watercourse On The Minor/Canal
	1	Head
	2	Middle
	3	Tail
	1.19	Financial Year
	1.20	Comments

WC Monitoring Tool-2

BRIEF PROFILE OF SAMPLED WATERCOURSE

1. IDENTIFICATION		
DB.#	Q.#	Field Name
	1.1	Province/ Unit
	1.2	Division
	1.3	District
	1.4	Tehsil
	1.5	Field Team
	1.6	Union Council
	1.7	Village
	1.8	Name of Chairman
	1.9	Contact # of Chairman
	1.10	NA Constituency
	1.11	PP Constituency
	1.12	Watercourse Name
	1.13	Watercourse Location
	1	Canal Area
	2	Non-Canal Area
<i>If 'Canal area' in Q.# 1.11 then Continue with Q.# 1.12</i>		<i>Otherwise continue with Q# 1.16</i>
	1.12	Canal
	1.13	Branch
	1.14	Distributary
	1.15	Minor
	1.16	Type of Water Source
	1	Perennial Canal
	2	Annual Canal
	3	Tube Well
	1.17	Category Of Watercourse To Be Improved
	1	Regular (New)
	2	20 Years Old
	3	Additional Lining
	1.18	Type Of Watercourse
	1	Rectangular/ Bricks

	2	Parabolic
	3	Pvc 3"
	4	Pvc 4"
	5	Rcc Pipe
	6	Stone Masonry
	1.19	Location Of Watercourse On The Minor/Canal
	1	Head
	2	Middle
	3	Tail
	1.20	Financial Year
	1.21	Designed Discharge (LPS)
	1.22	Additional discharge?
	1	Yes
	2	No
<i>If 'Yes' in Q#-1.22 then Continue with Q#-1.23</i>		<i>Otherwise goto to Q#1.24</i>
	1.23	Additional discharge source
	1.24	Quality of Ground water
	1	Sweet
	2	Brackish
	1.25	Total culturable Command Area (CCA) (Acres)
	1.26	Total Water User's Nos.
	1.27	Status of watercourse to be improved
	1	Technical Sanction(TS) Issued
	2	Intermediate Completion Report (ICR-1) Issued
	3	Intermediate Completion Report (ICR-2) Issued
	4	Final Completion Report(FCR) Issued
	1.28	Coordinates & picture at Mogha
<i>If Q#-1.27 is at Technical sanction Continue with Q#-1.30</i>		<i>Otherwise goto to Q#1.29</i>
	1.29	Coordinates & picture of Kacha and Lining of work course at lining end
	1.30	Coordinates & pictures at Kacha end
	1.31	Sanctioned lining length of watercourse
	1.32	Date of Technical Sanction(TS)
	1.33	Sanctioned Cost (rupees)
	2	COMMENTS OF INTERVIEWER

WC Monitoring Tool-3

LIST OF WATERCOURSE SHAREHOLDERS

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Watercourse ID: _____
2. SHAREHOLDERS LIST		
	2.1	Name of Shareholder
	2.2	Gender
	1	Male
	2	Female
	2.3	Father Name
	2.4	Area Owned (Acres)
	2.5	Area Rented In (Acres)
	2.6	Area Rented out (Acres)
	2.7	Total Area operated (Acres)
	2.8	Status in association
	1	Chairman
	2	Treasurer
	3	Secretary
	4	Member
	5	Not Member
	2.9	Location on WC
	1	Head
	2	Middle
	3	Tail
	3	COMMENTS OF INTERVIEWER

WC Monitoring Tool-4

LIST OF WATERCOURSE BENEFICIARIES/FARMERS

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Watercourse ID:
2. BENEFICIARY/FARMER LIST		
	2.1	Name of Share Croppers / Harries / Tenant / etc.
	2.2	Father Name
	2.3	Gender
	1	Male
	2	Female
	2.4	Total area operated in (Acres)
	2.5	Location on watercourse(WC)
	1	Head
	2	Middle
	3	Tail
	3	COMMENTS OF INTERVIEWER

WC Monitoring Tool-5

QUESTIONNAIRE FOR SOCIAL & GENDER

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Watercourse ID: _____
	1.2	Name of Respondent
	1.3	Age (Years) (till to date)
	1.4	Level of Education
	1	Illiterate
	2	Primary
	3	Middle
	4	Matric
	5	Intermediate
	6	Graduate and above
	7	Madrasa Education
	8	Literate
	1.5	Occupation
	1	Housekeeping
	2	Agriculture
	3	Labor
	4	Govt./Private job
	5	Business
	6	If any other, Specify? _____
2. SOCIAL INFORMATION		
Land, Cultivation and Irrigation Information		
	2.1	Are you currently married?
	1	Yes
	2	No
	2.2	Do you own a piece of agricultural land?
	1	Yes
	2	No
	3	Do not Know
	2.3	How many acres?
	2.4	How much land is as tenancy? (Acres)
	2.5	Who cultivates your land?

	1	I myself
	2	My father
	3	My brother
	4	My husband
	5	Hari / Tenant
	6	Do not know
	2.6	Do your family/husband own a piece of agri. land or work as tenant?
	1	Owner Land
	2	Worked as tenant
	3	Both owner and tenant
	4	Do not Know
	2.7	Do you participate in farming activities?
	1	Yes
	2	No
	2.8	Do you people face problem regarding the irrigation water?
	1	Yes
	2	No
	3	Never asked
	2.9	Are you consulted in making farming decisions regarding your land?
	1	Always
	2	Rarely
	3	Never
	2.10	Are you consulted in spending income at your household?
	1	Always
	2	Rarely
	3	Never
	2.11	Are you consulted in making household decisions?
	1	Always
	2	Rarely
	3	Never
	2.12	What household activities are performed by you?
	1	Cooking
	2	Looking after elders
	3	Washing clothes and dishes
	4	Cleaning of house
	5	Caring of Children

	6	Bringing drinking water
	7	Bringing fire wood
	8	If any other, Specify? _____
	2.13	Have you heard about NPIWC-II Project?
	1	Yes
	2	No
	2.14	Do You know about WUA
1	Yes	
2	No	
2.15	Are you member of WUA	
1	Yes	
2	No	
2.16	Do you participate in WUA meetings?	
	1	Always
	2	Never
	3	Never called
2.17	Do you wash clothes at washing pad at watercourse?	
	1	Yes
	2	No
2.18	Are Culverts sufficient for crossing at watercourse?	
	1	Yes
	2	No
	3	COMMENTS OF INTERVIEWER

WC Monitoring Tool-6

BENEFICIARY/FARMER FEEDBACK & ENVIRONMENT

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Watercourse ID: _____
	1.4	Status of watercourse to be improved
	1	Technical Sanction(TS) Issued
	2	Intermediate Completion Report(ICR-1) Issued
	3	Intermediate Completion Report(ICR-2) Issued
	4	Final Completion Report(FCR) Issued
<i>If only "Technical Sanction Issued", Cover this section till Q 3.11</i>		
<i>If the answer in q 1.4 comes from 2 to 3 then fill from Q 3.12 to Q 3.23</i>		
<i>If the answer in q 1.4 comes from FCR then fill from Q 4.1 till End</i>		
Farmers Feedback: Part A, Water User Association		
	2.1	Do you know about Water User's Association (WUA)?
	1	Yes
	2	No
	3	No Response
<i>If "Yes" in Q.#2.1 then continue with Q#2.2</i>		<i>otherwise goto Q#2.15</i>
	2.2	Are you a member of Water User's Association(WUA)?
	1	Yes
	2	No
	3	Don't know
<i>If "Yes" in Q.#2.2 then continue with Q#2.3</i>		<i>otherwise goto Q#2.18</i>
	2.3	Was your participation voluntary?
	1	Yes
	2	No
	3	No Response
	2.4	Who motivated you to be a member?
	1	Fellow farmers
	2	Big Landlord
	3	OFWM field team
	4	Any other (Specify)
	2.5	Did you pay any membership fee to become member of WUA?
	1	Yes

	2	No
	3	No Response
	2.6	Do all the WUA members are water user's?
	1	Yes
	2	No
	2.7	Do WUA holds regular meetings of the association?
	1	Yes
	2	No
	3	To some Extent
	2.8	Do you participate in the WUA meetings?
	1	Always
	2	Occasionally
	3	Never
	2.9	Do you know that the minutes are recorded and got approved in next meeting?
	1	Always
	2	Occasionally
	3	Never
	2.10	Do Decisions make democratically?
	1	Yes
	2	No
	3	To some Extent
	2.11	Do Majority of the members participate in the meetings?
	1	Yes
	2	No
	3	To some Extent
	2.12	What is the frequency of WUA meetings?
	1	Every month
	2	Quarterly
	3	Once a year
	4	As per need arises
	2.13	Do you aware about functions and responsibilities of the Association?
	1	Labour Arrangement
	2	Resolve Disputes
	3	WCs Maintenance
	4	Funding for Accounts
	2.14	Do you think WUA helps in solving your farming problems?

1	Always
2	To some Extent
3	Never
Farmer Feedback: Watercourse	
2.15	Do you Know that your watercourse is going to be newly lined/additionally lined/reconstructed?
1	Yes
2	No
3	Don't know
<i>If "Yes" in Q.#2.15 then continue with Q#2.16</i>	
<i>Otherwise goto Q#2.18</i>	
2.16	Do you know that the lining will be up to 50% of the watercourse length?
1	Yes
2	No
3	Don't know
2.17	Do you think that watercourse lining up to 50% will benefit you?
1	Yes
2	No
3	Don't know
3. Feedback: Environment Baseline	
3.1	Will there be land required for the improvement / alignment of watercourse?
1	Yes
0	No
3.2	Are the clothes washed on this watercourse?
1	Yes
0	No
<i>If "Yes" in Q.#3.2 then continue with Q#3.3</i>	
<i>Otherwise goto Q#3.4</i>	
3.3	How many places and at what locations?
3.3.1	How many at Head?
3.3.2	How many at Middle?
3.3.3	How many at Tail?
3.4	Do washing bays required on this watercourse?
1	Yes
0	No
<i>If "Yes" in Q.#3.4 then continue with Q#3.5</i>	
<i>Otherwise goto Q#3.6</i>	
3.5	How many places and at what locations?
3.5.1	How many at Head?
3.5.2	How many at Middle?

	3.5.3	How many at Tail?
	3.6	Will any trees be cut down on this watercourse?
	1	Yes
	0	No
		<i>If "Yes" in Q.#3.6 then continue with Q#3.7</i>
		<i>Otherwise goto Q#3.8</i>
	3.7	Number of Trees to be Cut Down?
	3.8	Will temporary diversion channel be needed?
	1	Yes
	0	No
	3.9	How the solid waste material will be disposed of?
	1	Used in filling small depressions
	2	Used for dressing Inspection Path / Non Inspection Path
	3	Left unattended
	4	If any other, Specify
	3.10	Will there be disruption to local routes?
	1	Yes
	0	No
	3.11	Will the local labour be hired for works on this watercourse?
	1	Yes
	0	No
Farmer's Feedback: DURING CONSTRUCTION		
	3.12	Do you know that this watercourse is being lined up to 50 percent?
	1	Yes
	0	No
	3.13	Was the land required for WC alignment provided by the land owners voluntarily?
	1	Yes
	0	No
	3.14	Are washing bays under construction as per technical sanction?
	1	Yes
	0	No
	3.15	How many places and at what locations?
	3.15.1	How many at Head?
	3.15.2	How many at Middle?
	3.15.3	How many at Tail?
	3.16	Were any trees cut down during watercourse improvement work?
	1	Yes

	0	No
	2	Number of Trees Cut Down?
<i>If "Yes" in Q.#3.16 then continue with Q#3.17</i>		<i>Otherwise goto Q#3.19</i>
	3.17	How many saplings have been planned to be planted against each tree cut down?
	3.18	Do the arrangements made for the protection of newly planted saplings?
	1	Yes
	0	No
	3.19	Were temporary diversion channel(s), if any, made?
	1	Yes
	0	No
<i>If "Yes" in Q.#3.19 then continue with Q#3.20</i>		<i>Otherwise goto Q#3.21</i>
	3.20	How the solid waste material was disposed of?
	1	Used in filling small depressions
	2	Used for dressing Inspection Path / Non Inspection Path
	3	Lefty unattended
	4	If any, Specify
	3.21	Was the disruption of local routes occurring?
	1	Yes
	0	No
<i>If "Yes" in Q.#3.21 then continue with Q#3.22</i>		<i>Otherwise goto Q#3.23</i>
	3.22	Were measures taken to restore the local routes properly?
	1	Yes
	0	No
	3.23	Was local labor hired for improvement works of the watercourse?
	1	Yes
	0	No
Beneficiary/Farmer Feedback: Part C		
4.VISIT AFTER CONSTRUCTION		
	4.1	Do you know that watercourse was lined up to 50%?
	1	Yes
	2	No
	3	NA
<i>If "Yes" in Q.#4.1 then continue with Q#4.2</i>		<i>otherwise skip the questionnaire</i>
	4.2	Did you ever visit watercourse site as it was being improved?
	1	Yes
	2	No

3	NA
4.3	Were disputes resolved during construction of the watercourse?
1	Yes
2	No
3	To some Extent
4.4	Were there issues relating to controlled structures/ nacca fixing were resolved?
1	Yes
2	No
3	To some Extent
4.5	Have you heard about the quality of work?
1	Yes
2	No
3	NA
If "Yes" in Q.#4.5 then continue with Q#4.6 Otherwise goto Q#4.8	
4.6	Do you think work quality was?
1	Good
2	Average
3	Not good
4	Don't know
If "Not Good" in Q.#4.6 then continue with Q#4.7 Otherwise goto Q#4.8	
4.7	If work quality is not good, then of which?
1	Bricks
2	RCC/PVC pipe
3	Cement
4	Slab
5	Control structure/Nacca
6	Workmanship
7	Any other (Specify)
4.8	Do you know that before the lining work was started, the watercourse was earthen, improved/renovated?
1	Yes
2	No
3	Don't know
If "Yes" in Q.#4.8 then continue with Q#4.9 Otherwise goto Q#4.10	
4.9	How much in your view watercourse length was earthen improved / renovated?
1	Entire length
2	Only Lining part
3	Do not know

Labour		
	4.10	Arranged skilled and unskilled labour for earthen improvement of the watercourse
	1	Yes
	2	No
	3	To some Extent
	4.11	Arranged skilled and unskilled labour for watercourse lining/ alignment
	1	Yes
	2	No
	3	To some Extent
	4.12	Did you participate in earthen improvement activity?
	1	Yes
	2	No
	3	To some Extent
<i>If "Yes" in Q.#4.12 then continue with Q#4.13</i>		<i>Otherwise goto Q#4.14</i>
	4.13	In what form?
	1	Contributed labour
	2	Contributed in kind/money
	4.14	Do you think that irrigation water availability has increased after the watercourse improvement at your farm?
	1	Yes
	2	No
	3	Don't know
<i>If "Yes" in Q.#4.14 then continue with Q#4.15</i>		<i>Otherwise goto Q#4.16</i>
	4.15	How much?(Please guess keeping in view difference in acreage irrigated before and after WC improvement)
	1	Less than 5%
	2	5%
	3	10%
	4	20%
	4.16	Did WUA Resolve disputes arising during construction of watercourse?
	1	Yes
	2	No
	3	To some Extent
	4.17	Did WUA Resolve issues relating to controlled structures/Nacca fixing?
	1	Yes
	2	No
	3	To some Extent
	4.18	The improved watercourse is properly maintained
	1	Yes

	2	No
	3	To some Extent
Environment		
	4.19	Were the washing bays constructed/completed?
	1	Yes
	0	No
	4.20	How many places, and at what locations?
	4.20.1	How many at Head?
	4.20.2	How many at Middle?
	4.20.3	How many at Tail?
	4.21	How many saplings were planted against each tree cut down?
	4.21.1	Number of Survived Trees?
	4.22	Were the arrangements made for the protection of newly planted saplings?
	4.23	Were temporary diversion channel(s) restored?
	1	Yes
	0	No
	4.24	How the solid waste material was disposed of?
	1	Used in filling small depressions
	2	Used for dressing Inspection Path / Non Inspection Path
	3	Left unattended
	4	If any other, Specify
	4.25	Was the disruption of local routes occurring?
	1	Yes
	0	No
	4.26	Were measures taken to restore the local routes properly?
	1	Yes
	0	No
	4.11	Were the local labor hired for works on this watercourse?
	1	Yes
	0	No
	5	COMMENTS OF INTERVIEWER

WC Monitoring Tool-7

QUESTIONNAIRE FOR FARMING/BENEFICIARY OF HOUSEHOLD

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Watercourse ID: _____
2. PROFILE OF BENEFICIARY		
	2.1	Name
	2.2	Father's Name
	2.3	District
	2.4	Tehsil
	2.5	Field Team
	2.6	Village
	2.7	Location of farm on watercourse
	1	Head
	2	Middle
	3	Tail
3. FARM SIZE AND TEANURIAL STATUS		
	3.1	Area Owned (Acres)
	3.2	Area Rented-In (Acres)
	3.3	Area Rented-Out (Acres)
	3.4	Total Farm Area (Acres)
	3.6	Area not Cultivated
	3.7	Area Cultivated
	3.8	Area under water logging and salinity
	3.9	Reason for water logging
		1
2		Others
3.5		Tenurial status
	1	Owner
	2	Owner cum Tenant
	3	Tenant

4. SOURCES OF IRRIGATION WATER		
	4.1	Main Sources
	1	Canal
	2	Tube well
	3	Canal+TW
	4	Others
	4.2	Status of tube well water used
	1	Owned
	2	Purchased
	4.3	Cost of tube well water per hour Rs.
	4.4	Share of irrigation water %age
	4.4.1	Water used for Kharif crops?
	1	Canal
	2	Tube well
	3	Others
	4.4.2	Water used for Rabi crops
	1	Canal
	2	Tube well
	3	Others
5. FAMILY AND PERMANENT HIRED LABOR		
	5.1	Family Members
	5.5.1	Member full time available for farming
	1	Male
	2	Female
	5.5.2	Member part time available for farming
	1	Male
	2	Female
	5.5.3	Permanent hired labor (PHL)
	1	Male
	2	Female

Name of Crop	Area (acres)	Land Preparation			Laser Land Leveling			Seed Bed Preparation		
		Acres	Hr/ Acre	Rate/hr	Acres	Hr/ Acre	Rate/hr	Acres	Hr/ Acre	Rate/hr
Kharif Crops										
1 Rice (Fine)										
2 Rice (Coarse)										
3 Cotton (American)										
4 Cotton (Desi)										
5 Sugarcane (New)										
6 Sugarcane (Ratoon)										
7 Sugar Beet										
8 Maize										
9 Tobacco										
10 Kharif fodder										
11 Other Kharif Crops (Name)										
Rabi Crops										
12 Wheat										
13 Sunflower										
14 Rapeseed, mustard, canola										
15 Other Edible Oils Seed										
16 Rabi fodder										
17 Other Rabi crops (Name)										
Orchards										
18 Mango										
19 Dates										
20 Apple										
21 Lemon										
22 Citrus										
23 Guava										
24 Other (Name)										
Vegetables										
25 Tomato										
26 Potato										
27 Peas										
28 Carrot										
29 Radish										
30 Cucumber										
31 Onion										
32 Lady Finger/ Okra										
33 Chilies										
34 Other (Names)										

Name of Crop	Seed Bed Treatment										Seed Treatment cost	
	Use of Seed		Seedling cost/acre		Sowing (CHL)		Plantation (CHL)		Transplantation			
	Kg/ acre	Rs/ Kg	Home Grown	Bought	Male	Female	Male	Female	Male	Female	Cost. Per acre	Labour Cost
Kharif Crops												
1 Rice (Fine)												
2 Rice (Coarse)												
3 Cotton (American)												
4 Cotton (Desi)												
5 Sugarcane (New)												
6 Sugarcane (Ratoon)												
7 Sugar Beet												
8 Maize												
9 Tobacco												
10 Kharif fodder												
11 Other Kharif Crops (Name)												
Rabi Crops												
12 Wheat												
13 Sunflower												
14 Rapeseed, mustard, canola												
15 Other Edible Oils Seed												
16 Rabi fodder												
17 Other Rabi crops (Name)												
Orchards												
18 Mango												
19 Dates												
20 Apple												
21 Lemon												
22 Citrus												
23 Guava												
24 Other (Name)												
Vegetables												
25 Tomato												
26 Potato												
27 Peas												
28 Carrot												
29 Radish												
30 Cucumber												
31 Onion												
32 Lady Finger/ Okra												
33 Chilies												
34 Other (Names)												

Name of Crop		Use of Fertilizers (No. of Bags)/Acre											
		Urea		DAP		Potash (SOP)		NP (23-23)		Other Name		Cost of Hired Labour	
		Qty Bags	Price per Bag	Qty Bags	Price per Bag	Qty Bags	Price per Bag	Qty Bags	Price per Bag	Qty Bags	Price per Bag	Male	Female
	Kharif Crops												
1	Rice (Fine)												
2	Rice (Coarse)												
3	Cotton (American)												
4	Cotton (Desi)												
5	Sugarcane (New)												
6	Sugarcane (Ratoon)												
7	Sugar Beet												
8	Maize												
9	Tobacco												
10	Kharif fodder												
11	Other Kharif Crops (Name)												
	Rabi Crops												
12	Wheat												
13	Sunflower												
14	Rapeseed, mustard, canola												
15	Other Edible Oils Seed												
16	Rabi fodder												
17	Other Rabi crops (Name)												
	Orchards												
18	Mango												
19	Dates												
20	Apple												
21	Lemon												
22	Citrus												
23	Guava												
24	Other (Name)												
	Vegetables												
25	Tomato												
26	Potato												
27	Peas												
28	Carrot												
29	Radish												
30	Cucumber												
31	Onion												
32	Lady Finger/ Okra												
33	Chilies												
34	Other (Names)												

Name of Crop	FYM				Sprays				Canal irrigation Per Acre		
	Area treated	No. of Trolleys.	Cost per	Labour Cost		No. of spray	Cost of Sprays	Cost of Hired Labour		No. of irrigation per acre	Abanya & taxes per crop
				Male	Female			Male	Female		
	Kharif Crops										
1	Rice (Fine)										
2	Rice (Coarse)										
3	Cotton (American)										
4	Cotton (Desi)										
5	Sugarcane (New)										
6	Sugarcane (Ratoon)										
7	Sugar Beet										
8	Maize										
9	Tobacco										
10	Kharif fodder										
11	Other Kharif Crops (Name)										
	Rabi Crops										
12	Wheat										
13	Sunflower										
14	Rapeseed, mustard, canola										
15	Other Edible Oils Seed										
16	Rabi fodder										
17	Other Rabi crops (Name)										
	Orchards										
18	Mango										
19	Dates										
20	Apple										
21	Lemon										
22	Citrus										
23	Guava										
24	Other (Name)										
	Vegetables										
25	Tomato										
26	Potato										
27	Peas										
28	Carrot										
29	Radish										
30	Cucumber										
31	Onion										
32	Lady Finger/ Okra										
33	Chilies										
34	Other (Names)										

Name of Crop	Tube well irrigation			Picking of cotton/orchard/Vegetables			Number of hoeing/thinning		
	Hour/Acre	Cost/hour	Area Irrigated	Number of Picking	CHL Rs.		Number	CHL Rs.	
					Male	Female		Male	Female
Kharif Crops									
1	Rice (Fine)								
2	Rice (Coarse)								
3	Cotton (American)								
4	Cotton (Desi)								
5	Sugarcane (New)								
6	Sugarcane (Ratoon)								
7	Sugar Beet								
8	Maize								
9	Tobacco								
10	Kharif fodder								
11	Other Kharif Crops (Name)								
Rabi Crops									
12	Wheat								
13	Sunflower								
14	Rapeseed, mustard, canola								
15	Other Edible Oils Seed								
16	Rabi fodder								
17	Other Rabi crops (Name)								
Orchards									
18	Mango								
19	Dates								
20	Apple								
21	Lemon								
22	Citrus								
23	Guava								
24	Other (Name)								
Vegetables									
25	Tomato								
26	Potato								
27	Peas								
28	Carrot								
29	Radish								
30	Cucumber								
31	Onion								
32	Lady Finger/ Okra								
33	Chilies								
34	Other (Names)								

Name of Crop	Mulching/ Pruning/ Stalking			harvesting/ picking						
	Number	CHL Rs.		Harvest Material Cost (Wheat and Rice)	CHL Rs.		Cost of Labour for Harvest ing in rs	Cost of Threshi ng	CHL Rs.	
		Male	Female		Male	Female			Male	Female
Kharif Crops										
1	Rice (Fine)									
2	Rice (Coarse)									
3	Cotton (American)									
4	Cotton (Desi)									
5	Sugarcane (New)									
6	Sugarcane (Ratoon)									
7	Sugar Beet									
8	Maize									
9	Tobacco									
10	Kharif fodder									
11	Other Kharif Crops (Name)									
Rabi Crops										
12	Wheat									
13	Sunflower									
14	Rapeseed, mustard, canola									
15	Other Edible Oils Seed									
16	Rabi fodder									
17	Other Rabi crops (Name)									
Orchards										
18	Mango									
19	Dates									
20	Apple									
21	Lemon									
22	Citrus									
23	Guava									
24	Other (Name)									
Vegetables										
25	Tomato									
26	Potato									
27	Peas									
28	Carrot									
29	Radish									
30	Cucumber									
31	Onion									
32	Lady Finger/ Okra									
33	Chilies									
34	Other (Names)									

Name of Crop		Area (acres)	Yield		Prices		In case sold as such Rs. /Acre for fruit plants only
			Product (40 Kgs)	By-product (40 Kgs)	Product Price per 40 Kg (Rs.)	By-Product (Rs. /40 Kg)	
	Kharif Crops						
1	Rice (Fine)						
2	Rice (Coarse)						
3	Cotton (American)						
4	Cotton (Desi)						
5	Sugarcane (New)						
6	Sugarcane (Ratoon)						
7	Sugar Beet						
8	Maize						
9	Tobacco						
10	Kharif fodder						
11	Other Kharif Crops (Name)						
	Rabi Crops						
12	Wheat						
13	Sunflower						
14	Rapeseed, mustard, canola						
15	Other Edible Oils Seed						
16	Rabi fodder						
17	Other Rabi crops (Name)						
	Orchards						
18	Mango						
19	Dates						
20	Apple						
21	Lemon						
22	Citrus						
23	Guava						
24	Other (Name)						
	Vegetables						
25	Tomato						
26	Potato						
27	Peas						
28	Carrot						
29	Radish						
30	Cucumber						
31	Onion						
32	Lady Finger/ Okra						
33	Chilies						
34	Other (Names)						

7. BENEFICIARY'S PERCEPTION ABOUT WATER SAVING		
DB#	Q#	Field Name
		Watercourse ID: _____
	1.1	Do you think use of labour force increased on from after improvement of watercourse?
	1	Yes
	2	No
		If "Yes" in Q.#9.1 then continue with Q#9.2
		Otherwise goto Q#9.3
	1.2	How much (%)
	1.3	Are you satisfied with the equity in distribution of water?
	1	Yes
	2	No
	1.4	How much your land was irrigated before lining in one go?
	1.5	After lining, how much your land irrigates in one go?
	1.6	During the season have you faced any problem regarding water theft/ dispute or litigation?
	1	Yes
	2	No
		If "Yes" in Q.#9.6 then continue with Q#9.7
		Otherwise goto Q#9.8
	1	Yes
	2	No
	1.7	During and after watercourse improvement on OFWM staff has guided about economically use of water?
	1	Yes
	2	No
	1.8	Have OFWM staff provided you any literature about economically use of water?
	1	Yes
	2	No
	1.9	General remarks of beneficiaries about watercourse improvement intervention

WC Monitoring Tool-8

SPOT CHECK OF WATERCOURSE IMPROVEMENT

1. IDENTIFICATION		
DB.#	Q.#	Field Name
	1.1	Watercourse ID. _____
2. Rectangular/ Bricks Watercourse		
	2.1	Removal of vegetation from watercourse properly
	1	Yes
	2	No
	2.2	Aligning according to design
	1	Yes
	2	No
	2.3	Proper compaction of soil
	1	Yes
	2	No
	2.4	Actual discharge (as per Irrigation Department) (LPS)
	2.5	Is water supply
	1	Adequate
	2	Not-adequate
<i>If 'Adequate' in Q.# 2.5 then continue with Q.# 2.7</i>		<i>Otherwise continue with Q# 2.6</i>
	2.6	Not adequate, Is there any additional water supply (via. Tube Well / lift machine) at watercourse?
	1	Yes
	2	No
	2.7	Type of Mogha/ outlet
	1	Open-type
	2	Closed
	3	Closed-pipe
	4	Closed-pump
	2.8	Lining length is as per design
	1	Yes
	2	No
	2.9	Thickness of wall is as per design
	1	Yes
	2	No
	2.10	Depth of watercourse is as per design
	1	Yes

	2	No
	2.11	Width of watercourse is as per design
	1	Yes
	2	No
	2.12	Thickness of plaster at wall is adequate
	1	Yes
	2	No
	2.13	Thickness of bed is adequate
	1	Yes
	2	No
	2.14	Thickness of mortar at wall is adequate
	1	Yes
	2	No
	2.15	Free board height is as per design
	1	Yes
	2	No
	2.16	Back collar mortar is adequate
	1	Yes
	2	No
	2.17	Quality of Plaster
	1	Good
	2	Satisfactory
	3	Not satisfactory
	2.18	Back filling of the lining portion
	1	Good
	2	Satisfactory
	3	Not satisfactory
	2.19	Rehabilitation of Katcha / earthen portion of watercourse
	1	Full length improved
	2	Only lined portion
Structures Fixing		
	2.20	Controlled Structures for Branch Watercourse
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	2.21	Pacca Naccas in improved area
	1	Number installed as per design

	2	Installed less than as per design
	3	None installed
2.22	Pacca Naccas in Katcha area	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
2.23	Culverts in improved area	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
2.24	Box Culverts in improved area	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
2.25	Pipe Culverts in improved area	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
2.26	Siphon in improved area	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
2.27	Drop Structure in improved area	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
2.28	Wallow/Buffaloes bath in improved area	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
2.29	Wash bay in improved watercourse	
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
3. Parabolic Watercourse		
3.1	Removal of vegetation from watercourse properly	
	1	Yes

	2	No
	3.2	Is designed discharge (as per Irrigation Department)? _____ LPS
	3.3	Is water supply?
	1	Adequate
	2	Not adequate
		If 'Adequate' in Q.# 3.3 then continue with Q.# 3.5 Otherwise continue with Q.# 3.4
	3.4	If Not adequate, Is there any additional water supply (via. Tube Well / lift machine) at watercourse?
	1	Yes
	2	No
	3.5	Type of Mogha / outlet
	1	Open
	2	Closed
	3	Closed-Pipe
	4	Closed Pump
	3.6	Lining length is as per design
	1	Yes
	2	No
	3.7	Total length is as per design
	1	Yes
	2	No
	3.8	Quality of pre-cast parabolic segments
	1	Good
	2	Poor
	3.9	Filling of joints of the parabolic segments
	1	Good
	2	Poor
	3.10	Slope of the parabolic segments
	1	As per Design
	2	Not as per Design
	3.11	Back filling of pre-cast parabolic slabs
	1	Proper
	2	Not proper
Structures Fixing		
	3.12	Controlled Structures for Branch Watercourse
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed

	3.13	Pacca Naccas in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.14	Pacca Naccas in Katcha area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.15	Culverts in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.16	Box Culverts in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.17	Pipe Culverts in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.18	Siphon in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.19	Drop Structure in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.20	Wallow/Buffaloes bath in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	3.21	Wash bay in improved watercourse
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
4. PVC and RCC Pipeline Watercourse		
	4.1	Excavation of trenches for water supply pipelines are as per specifications

	1	Yes
	2	No
	4.2	Actual discharge (as per Irrigation Department) _____ LPS
	4.3	Is water supply?
	1	Adequate
	2	Not adequate
If 'Adequate' in Q.# 4.3 then continue with Q.# 4.5		Otherwise continue with Q.# 4.4
	4.4	Is additional discharge (via. Tube Well / lift machine) at watercourse?
	1	Yes
	2	No
	4.5	Type of Mogha / outlet
	1	Open
	2	Closed
	3	Closed-Pipe
	4	Closed-Pump
	4.6	What kind of pipeline has been used?
	1	RCC Pipe
	2	PVC Pipe
	3	G-I Pipe
	4.7	Pipeline length is as per design
	1	Yes
	2	No
	4.8	Bends as per design
	1	Yes
	2	No
	4.9	Sockets are as per design
	1	Yes
	2	No
	4.10	Air Valve are as per design
	1	Yes
	2	No
	4.11	Reducers are as per design
	1	Yes
	2	No
	4.12	Flanges are as per design
	1	Yes
	2	No

	4.13	Tee are as per design
	1	Yes
	2	No
	4.14	Non-Return Valves are as per design
	1	Yes
	2	No
	4.15	Cast Iron Sluice Valve are as per design
	1	Yes
	2	No
	4.16	Quality of Pipeline
		1-Good
		2-Satisfactory
		3-Not satisfactory
Structures Fixing		
	4.17	Controlled Structures for Branch Watercourse
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	4.18	Pacca Naccas in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	4.19	Pacca Naccas in Katcha area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	4.20	Culverts in improved area
	1	Number installed as per design
	2	Installed less than as per design
	3	None installed
	5	COMMENTS OF INTERVIEWER

WC Monitoring Tool-9

WATER FLOW IN SAMPLED WATERCOURSE (Before Improvement/After Improvement)

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Watercourse ID: _____
2. WATERCOURSE IMPROVEMENT STATUS		
	2.1	Total Watercourse Length in Meter
	2.2	Stage of Watercourse Improvement
	1	Improved
	2	Unimproved
If 'Improved' in Q.# 2.2 then continue with Q.# 2.3		Otherwise continue with section 3.1
	2.3	If watercourse is improved or TS issued, then length of lining part in Meters?
3. PYGMY CURRENT METER (PCM) Readings for Determination of Velocity		
Station-1: PYGMY CURRENT METER READINGS NEAR WATERCOURSE OUTLET (At about 10 meters away from Mogha)		
	3.1	Station-1: X-Section Width from Edge of WC (inches)
Station-1: WC Depth (inches)		
		Station-1: Observation-1
	3.2	Station-1: Observation-1 - Depth-1 (inches)
	3.3	Station-1: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.4	Station-1: Observation-1 - Depth-2 (inches)
	3.5	Station-1: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.6	Station-1: Observation-1 - Depth-3 (inches)
	3.7	Station-1: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.8	Station-1: Enter Cross Section of Watercourse After Observation-1 (feet)
		Station-1: Observation-2
	3.9	Station-1: Observation-2 - Depth-1 (inches)
	3.10	Station-1: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.11	Station-1: Observation-2 - Depth-2 (inches)
	3.12	Station-1: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.13	Station-1: Observation-2 - Depth-3 (inches)
	3.14	Station-1: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.15	Station-1: Enter Cross Section of Watercourse After Observation-2 (feet)

		Station-1: Observation-3
	3.16	Station-1: Observation-3 - Depth-1 (inches)
	3.17	Station-1: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.18	Station-1: Observation-3 - Depth-2 (inches)
	3.19	Station-1: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.20	Station-1: Observation-3 - Depth-3 (inches)
	3.21	Station-1: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.22	Station-1: Sketch of Watercourse Cross Section Area
	3.23	Comments of Interviewer
STATION-2: PYGMY CURRENT METER READINGS CLOSE TO THE END OF LINING PART AND AT MID POINT OF MIDDLE REACH OF THE WATERCOURSE		
	3.24	Station-2: X-Section Width from Edge of WC (inches)
	Station-2: WC Depth (inches)	
		Station-2: Observation-1
	3.25	Station-2: Observation-1 - Depth-1 (inches)
	3.26	Station-2: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.27	Station-2: Observation-1 - Depth-2 (inches)
	3.28	Station-2: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.29	Station-2: Observation-1 - Depth-3 (inches)
	3.30	Station-2: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.31	Station-2: Enter Cross Section of Watercourse After Observation-1 (feet)
	Station-2: Observation-2	
	3.32	Station-2: Observation-2 - Depth-1 (inches)
	3.33	Station-2: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.34	Station-2: Observation-2 - Depth-2 (inches)
	3.35	Station-2: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.36	Station-2: Observation-2 - Depth-3 (inches)
	3.37	Station-2: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.38	Station-2: Enter Cross Section of Watercourse After Observation-2 (feet)
	Station-2: Observation-3	
	3.39	Station-2: Observation-3 - Depth-1 (inches)
	3.40	Station-2: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.41	Station-2: Observation-3 - Depth-2 (inches)
	3.42	Station-2: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)

	3.43	Station-2: Observation-3 - Depth-3 (inches)
	3.44	Station-2: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.45	Station-2: Sketch of Watercourse Cross Section Area
	3.46	Comments of Interviewer
STATION-3: PYGMY CURRENT METER READINGS AT MID POINT OF TAIL REACH OF THE WATERCOURSE (At about 75% length of the watercourse)		
	3.47	Station-3: X-Section Width from Edge of WC (inches)
Station-3: WC Depth (inches)		
		Station-3: Observation-1
	3.48	Station-3: Observation-1 - Depth-1 (inches)
	3.49	Station-3: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.50	Station-3: Observation-1 - Depth-2 (inches)
	3.51	Station-3: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.52	Station-3: Observation-1 - Depth-3 (inches)
	3.53	Station-3: Observation-1 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.54	Station-3: Enter Cross Section of Watercourse After Observation-1 (feet)
		Station-3: Observation-2
	3.55	Station-3: Observation-2 - Depth-1 (inches)
	3.56	Station-3: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.57	Station-3: Observation-2 - Depth-2 (inches)
	3.58	Station-3: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.59	Station-3: Observation-2 - Depth-3 (inches)
	3.60	Station-3: Observation-2 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.61	Station-3: Enter Cross Section of Watercourse After Observation-2 (feet)
		Station-3: Observation-3
	3.62	Station-3: Observation-3 - Depth-1 (inches)
	3.63	Station-3: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-1)
	3.64	Station-3: Observation-3 - Depth-2 (inches)
	3.65	Station-3: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-2)
	3.66	Station-3: Observation-3 - Depth-3 (inches)
	3.67	Station-3: Observation-3 - Pygmy Current meter revolution counts in 40 seconds (Depth-3)
	3.68	Station-3: Sketch of Watercourse Cross Section Area
	3.69	COMMENTS OF INTERVIEWER

WST Monitoring Tool-1

WATER STORAGE TANK (WST) IDENTIFICATION

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Province / Unit
	1.2	Division
	1.3	District
	1.4	Tehsil
	1.5	Field Team
	1.6	Union Council
	1.7	Village
	1.8.1	NA Constituency
	1.8.2	PP Constituency
	1.9	Name of Farmer
	1.10	Gender
	1	Male
	2	Female
	1.11	Name of Father
	1.12	CNIC
	1.13	Cell #
	1.14	Sources of Irrigation System
	1	Canal Water
	2	Rainfall
	3	Tail Water Recovery Ditch (TWRD)
	4	Stream
	5	Naala
	6	Spring
	7	Tube well
	8	Dug well
	1.15	Area Operated (Acres)
	1.16	Land Topography
	1	Even
	2	Uneven
	1.17	Financial Year
	1.18	Comments

WST Monitoring Tool-2

SPOT CHECK OF WATER STORAGE TANK (WST)

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	WST ID_____
	1.2	Coordinates
2. SPOT CHECK		
	2.1	Shape of water storage tank
	2.2	Dimensions (Feet)
	1	Length 1
	2	Length 2
	3	Width 1
	4	Width 2
	5	Depth
	2.3	The farmer completed the WST using his/her own funds before subsidy
	1	Yes
	0	No
	2.4	The WST was completed as per approved standards and specifications
	1	Yes
	0	No
	2.5	Excavation was done as per standard engineering practices
	1	Yes
	0	No
	2.6	The NWM Consultants inspected the excavation
	1	Yes
	0	No
	2.7	Is the geo-membrane thickness minimum 0.5 mm
	1	Yes
	0	No
	2.8	The NWM Consultants inspected the excavation and quality of geo-membrane and certified as satisfactory
	1	Yes
	0	No
	2.9	Before filling the WST, the OFWM staff prepared the completion report
	1	Yes
	0	No
	2.10	Any variations in specifications and material used

	1	Yes
	0	No
If yes in Q# 2.10 then continue with Q# 2.11 Otherwise go to Q# 2.12		
	2.11	If yes in above, the subsidy was paid as per cost estimates based on geo-membrane design
	1	Yes
	0	No
	2.12	Does the water depth in WST exceed 5 feet?
	1	Yes
	0	No
If yes in Q# 2.13 then continue with Q# 2.14 Otherwise go to End		
	2.14	Is the testing of Joints welded parts done before filling the water storage tank?
	1	Yes
	0	No

WST Monitoring Tool-3

BENEFICIARIES' FEEDBACK FOR WATER STORAGE TANKS

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	WST ID _____
2. BENEFICIARY FEEDBACK		
	2.1	Name of Beneficiary / Owner
	2.2	How was your application attended by OFWM staff?
	1	Promptly
	2	Took a lot of time
	2.3	How you assess survey and design process?
	1	Fast track
	2	Lengthy
	2.4	Behavior of OFWM staff
	1	Friendly / Supportive
	2	Indifferent
	2.5	The subsidy was paid
	1	Within reasonable time
	2	Required a lot of time
	2.6	How do you feel about the maintenance of WST?
	1	Easy
	2	Difficult
	2.7	Cropping intensity has increased on your farm after WST
	1	Yes
	0	No
	3	To Some Extent
	2.8	Crops / orchards yield has increased after WST
	1	Yes
	0	No
	3	To Some Extent
	2.9	Your area under cultivation has increased after WST construction
	1	Yes
	2	No Change
	2.10	Number of irrigation/ acres has increased after WST construction
	1	Yes
	2	No Change

LLL Monitoring Tool-1

LASER LAND LEVELER IDENTIFICATION

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	Province/Unit
	1.2	District
	1.3	Tehsil
	1.4	Union Council
	1.5	Village
	1.6	NA Constituency
	1.7	PP Constituency
	1.8	Name of Service Provider
	1.9	Father's Name
	1.10	Gender
	1	Male
	2	Female
	1.11	CNIC
	1.12	Cell Number
	1.13	Financial Year
	1.14	Comments

LLL Monitoring Tool-2

CHECK LIST FOR TRAINING OF SERVICE PROVIDER /OPERATOR OF LASER LAND LEVELER

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	LLL ID: _____
2. AVAILABILITY OF FACILITIES FOR CAPACITY BUILDING		
2.1. Audio-Visual Aids for Training		
	2.1.1	Blackboard
	1	Yes
	2	No
	2.1.2	Flip Charts
	1	Yes
	2	No
	2.1.3	Overhead Projector
	1	Yes
	2	No
	2.1.4	Multimedia
	1	Yes
	2	No
	2.1.5	White Board
	1	Yes
	2	No
	2.1.6	Any other
	1	Yes
	2	No
	2.2	Refreshments Provided to the Participants
	1	Yes
	2	No
	2.3	Necessary Stationery for the trainees
	1	Yes
	2	No
	2.4	Handouts provided to the trainees
	1	Yes
	2	No
	2.5	Copies of the curriculum provided to the trainees

	1	Yes
	2	No
	2.6	Field visit during training
	1	Yes
	2	No
	2.7	No. of Participants
	2.8	Training period days
3. OTHER ASSESSMENT ITEMS		
3.1. Coverage		
	3.1.1	Extent of coverage of the curriculum
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.1.2	Depth of trainer's knowledge
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.1.3	Other related topics covered
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.2. Effectiveness of the Speakers/Trainers		
	3.2.1	How subject matter was introduced?
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.2.2	Use of Participatory Approach
	1	Excellent
	2	Very Good

	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.2.3	Clarity/command on the subject
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.2.4	Style of delivery
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.2.5	Reference to handouts/training material
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.2.6	Confidence of the trainer
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.2.7	Use of Audio-Visual Aids
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.2.8	Handouts Provided
	1	Excellent
	2	Very Good
	3	Good

	4	Satisfactory
	5	Not Satisfactory
3.2.9	Level of Interest Maintained	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.2.10	Managed Session within Time Limit	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.2.11	Effective Reply to Questions	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.2.12	Explained with examples	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.3. Group Discussion		
3.3.1	Level of Participation of Trainees	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.3.2	Question Answer session Held	
	1	Excellent
	2	Very Good
	3	Good

	4	Satisfactory
	5	Not Satisfactory
3.3.3	Quality of Group Discussions	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.4.Training Environment		
3.4.1	Seating Arrangement	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.4.2	Comfort of Participants	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.4.3	General Discipline	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.4.4	Participation Environment/Encouragement	
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
3.4.5	General Treatment Extended by TAT Staff	
	1	Excellent
	2	Very Good
	3	Good

	4	Satisfactory
	5	Not Satisfactory
3.5. Participants/Trainees		
	3.5.1	Enthusiasm
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.5.2	Level of Participation/Involvement
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.5.3	Regularity/Attendance
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	3.6	Overall Assessment of the Training Process
	1	Excellent
	2	Very Good
	3	Good
	4	Satisfactory
	5	Not Satisfactory
	4	COMMENTS OF INTERVIEWER

LLL Monitoring Tool-3

SERVICE PROVIDER FEEDBACK AND FOLLOW UP FOR LASER UNITS

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	LLL ID: _____
2. LASER LAND LEVELING UNIT SUPPLY COMPANY		
	2.1	Company
	2.2	Make & Model
	2.3	Date of delivery
	2.4	Delivery of the unit
	1	Timely
	2	Delayed
	3	No comments
	2.5	Quality / durability of the unit
	1	Good
	2	Satisfactory
	3	Unsatisfactory
	2.6	After sale service of the SSC
	1	Good
	2	Poor
	3	Very Poor
	2.7	Complaints attended by the SSC
	1	Promptly
	2	Not Promptly
	3	No Response
	2.8	Rates charged by the SSC to provide the after-sale service
	1	Costly
	2	Normal
	3	Not applicable
	2.9	Availability of spares
	1	Timely Available
	2	Takes long time
	3	Not available easily
	2.10	Prices charged by the SSC for the spares
	1	Costly
	2	Normal

	3	Do not know
	2.11	Spares are available
	1	Only with the SSC
	2	From open market
	3	I did not need yet
	2.12	SSC provider training in operation of the unit
	1	Yes
	2	No
	2.13	SSC provider training in maintenance and trouble shooting
	1	Yes
	2	No
	2.14	SSC provider operational manual
	1	Yes
	2	No
	2.15	General remarks services provider about LLL unit
3. MONITORING CHECKLIST		
	3.1	The unit is in physical possession of the service provider
	1	Yes
	2	No
<i>If "Yes" in Q.#3.1 then continue with Q#3.2</i>		<i>Otherwise goto Q#3.3</i>
	3.2	The unit has been
	1	Sold
	2	Stolen
	3	Working in field
	4	Hesitate to give status
	3.3	Took the Snap of the unit with date
	1	Yes
	2	No
	3.4	The service provider uses the unit for purpose
	1	Agricultural
	2	Other
	3.5	Do you have one trained operator for your equipment?
	1	Yes
	2	No
<i>If "Yes" in Q.#3.5 then continue with Q.#3.6</i>		<i>Otherwise goto Q#4.1.1</i>
	3.6	If Yes what is the monthly salary of the operator?
	3.7	The operator has been trained by

	1	OFWM
	2	Any Other
4.LAND LEVELING ACTIVITIES DETAILS		
4.1.Kharif		
	4.1.1	Own land leveled in acres
	4.1.2	Land leveled on rent in acres
	4.1.3	Number of farmers served
	4.1.4	Unit Rate in Rupees per hour
	4.1.5	Unit Rate in Rupees per acre
	4.1.6	Cost in Rupees per hour (Excluding operated cost)
	4.1.7	Cost in Rupees per acre (Excluding operated cost)
4.2.Rabi		
	4.2.1	Own land leveled in acres
	4.2.2	Land leveled on rent in acres
	4.2.3	Number of farmers served
	4.2.4	Unit Rate in Rupees per hour
	4.2.5	Unit Rate in Rupees per acre
	4.2.6	Cost in Rupees per hour (Excluding operated cost)
	4.2.7	Cost in Rupees per acre (Excluding operated cost)
	4.3	Farmers recently served in the vicinity
	4.3.1	Name
	4.3.2	Father Name
	4.3.3	Village
	4.3.4	Cell Number
	5	COMMENTS OF INTERVIEWER

LLL Monitoring Tool-4

BENEFICIARY FEEDBACK OF USERS OF LASER LAND LEVELER

1. IDENTIFICATION		
DB#	Q#	Field Name
	1.1	LLL ID: _____
	1.2	Farm Area in Acres
	1.3	Cultivated Area in Acres
	1.4	Area Levelled in Acres
	1.5	Time consumed in hours
	1.6	Rate per acre
	1.7	Rate Per hour
2. BENEFICIARY (USER) FEEDBACK		
Time saving in water application (Hrs)		
	2.1	Fallow Land Before Leveling
	2.2	Fallow Land After Leveling
	2.3	Sugarcane Before Leveling
	2.4	Sugarcane After Leveling
	2.5	Rice Before Leveling
	2.6	Rice After Leveling
	2.7	Cotton Before Leveling
	2.8	Cotton After Leveling
	2.9	Fodder Before Leveling
	2.10	Fodder After Leveling
	2.11	Wheat Before Leveling
	2.12	Wheat After Leveling
	2.13	Maize Before Leveling
	2.14	Maize After Leveling
	2.15	Sugar Beet Before Leveling
	2.16	Sugar Beet After Leveling
	2.17	Vegetables Before Leveling
	2.18	Vegetables After Leveling
	2.19	Any Other Before Leveling
	2.20	Any Other After Leveling
3. YIELD LEVEL PER ACRE (40 Kgs)		
	3.1	Wheat Land Before Leveling
	3.2	Wheat Land After Leveling

	3.3	Sugarcane Before Leveling
	3.4	Sugarcane After Leveling
	3.5	Rice Before Leveling
	3.6	Rice After Leveling
	3.7	Maize Before Leveling
	3.8	Maize After Leveling
	3.9	Fodder Before Leveling
	3.10	Fodder After Leveling
	3.11	Sugar Beet Before Leveling
	3.12	Sugar Beet After Leveling
	3.13	Cotton Before Leveling
	3.14	Cotton After Leveling
	3.15	Vegetable Before Leveling
	3.16	Vegetable After Leveling
	3.17	Any Other Before Leveling
	3.18	Any Other After Leveling

4. OTHER BENEFITS

	4.1	Seed Germination is better than before
	1	Yes
	2	No
	3	No Change
	4.2	Labor saving in crop operation like hoeing, spread of fertilizer, spray, harvesting etc.
	1	Yes
	2	No
	3	No Change
	5	COMMENTS OF INTERVIEWER