



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

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

MONITORING TEMPLATES

Monitoring, Evaluation & Impact Evaluation Consultants

Submitted by

A Joint Venture of
 **G3 Engineering Consultants (Pvt.) Ltd.** Lead Firm
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**Monitoring, Evaluation and Impact Evaluation (ME&IE) Consultants
National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)**

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MONITORING LOG-FRAME

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

Monitoring Log-frame

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
C1: Organization of Water Users' Associations (WUAs)	Reactivation of existing / organization of water users' associations. Ensuring one on each target watercourse. Total WUAs ensured 47,278.	a) Community mobilization at 47,278 watercourses	a) Total 47,278 WUAs reactivated / established/registered	a) Right of way of 47,278 watercourses available b) Skilled and unskilled labour required for watercourse improvement available c) Construction material for civil works of watercourses procured d) Alternate arrangement for water conveyance during construction made e) Watercourse improved	a) Disputes among the water users settled b) Farmers' branched improved c) Water allocation made amicably d) Maintenance of watercourses, WST and laser units done e) Cooperation among farmers increased	a) 47,278 watercourses improved and 15 percentage points conveyance losses reduced b) Litigation among farmers reduced	a) The functioning of the WUAs will be established through sample interview surveys of WUAs members twice during the project period
C2: Watercourses Improvements	Improvement of 47,278 watercourses on cost sharing basis: 40% farmers in	a) Establishment of 47,278 Water users' associations (WUAs);	a) 47,278 WCAs established; b) 47,278 WCAs registered;	a) Conveyance losses for improved watercourses decreased by	a) Increase in cropping intensity on improved	a) Increase in farm income; b) Increase in employment for farm labour;	a) The water flow measurements will be carried out at before and after

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	terms of labour, and 60% funded by project.	<p>b) Registration of 47,278 WUAs;</p> <p>c) Improvement and realignment of earthen section of 47,278 watercourses;</p> <p>d) Lining of up to 50% length of 47,278 watercourse either by:</p> <ul style="list-style-type: none"> • Precast concrete parabolic lining (PCPL) segments, or • Rectangular brick masonry, or any other method as approved by the project 	<p>c) 47,278 watercourses improved and lined;</p>	<p>about 15 percentage points.</p> <p>b) 1.654 million households benefited from the activity;</p> <p>c) 11.347 million acres served with improved watercourses</p>	<p>watercourses by 5-24%;</p> <p>b) Increase in crop yields.</p> <p>c) Increase in irrigated area</p> <p>d) Increase in agriculture output per unit of water by about 37%</p> <p>e)</p>	<p>c) Reduction in poverty;</p> <p>d) Enhanced food security for the country.</p>	<p>watercourse improvement on 2-5% sample basis;</p> <p>b) Agriculture survey before and after watercourse improvement on 2-5% sample basis;</p> <p>c) The survey will determine: <ul style="list-style-type: none"> • Cropping pattern before and after the improvement; • Cropping intensities before and after improvement; • Before and after crop yields; • Before and after employment; </p> <p>d) The difference between before and after will be considered the</p>

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
							result of the intervention after netting out the contribution of the growth pattern of the crop sector otherwise.
C3: Construction of Water Storage Tanks (WSTs)	a) Construction of 14,932 water storage tanks	a) 14,932 small farmers mobilized to construct water storage tanks for irrigation b) They agree to contribute 40% of the cost c) Agree to first construct the tank with his/her own funds and then received subsidy at 40% on issuance of FCR	a) 14,932 WSTs constructed b) 14,932 WSTs operated and maintained	a) Water which was otherwise largely going to be wasted is saved b) Irrigation provided at critical stages of the crops c) Flexibility achieved for irrigation	a) More area irrigated b) Increased cropping intensities	a) Increased crop yields b) Increased total crop output quantum c) Increased farm income d) Increased farm employment	a) 2-5% sample of WSTs will be surveyed b) A data collection form will be designed to measure water saving due to WSTs c) The forms used for baseline and impact surveys in case of watercourses will also be used for WSTs d) Same data analysis will be carried out here as in case of watercourses.
C4: Provision of Land Leveling Units	a) Provision of 11,610 laser land leveling units to	a) 11,610 laser units provided to	a) 11,610 farmers / service providers	a) Land levelled on Farmers' / service	a) Water application efficiency	e) Increased area under irrigated crops;	a) The land levelling is expected to save irrigation

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	farmers and service providers on a cost sharing basis: 50% by farmer / service provider and 50% by the project.	farmers / service providers; b) Farmers trained in using the units.	received PLL units; b) Farmers / service providers received training in using the units.	providers' farms; b) Land levelled on fellow farmers on rent; c) Total 3.483million acres levelled by 11,610 units.	increased at field level; b) Even germination of seed. c) Field application losses reduced by 10 percentage points d) Water productivity increased by 24%	f) Enhanced crop yields g) Increased farm income	water and result in better and even germination of seeds which can enhance crop yields. The crop yields thus affected will be reflected in agriculture sample surveys. b) 2-4% sample units will be visited by M&E teams after one years of delivery c) The unit will be verified d) Area treated during the year will be collected e) Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc.

MONITORING TEMPLATE 1 (MT1)

MONITORING WATER USERS' ASSOCIATION / FEEDBACK

Monitoring Template -1

Watercourse ID _____

NAME OF SURVEY AND DATE _____

MONITORING WATER USERS' ASSOCIATIONS / FEEDBACK

1. Identification of the Watercourse

1.1	Watercourse Number _____	1.2	Minor _____	
1.3	Distributary _____	1.4	Branch _____	
1.5	Canal _____	1.6	Tehsil _____	
1.7	District _____	1.8	Province / Area _____	
1.9	Name of WUA Chairman _____	1.10	Field Team _____	
1.11	District Team _____	1.12	Date of Interview _____	
1.13	Location of watercourse on the canal	Head	Middle	Tail
1.14	Director OFWM / Agriculture Department _____			

2. Process of WUA Establishment

2.1	Date of Application for Registration
2.2	Date of registration under OFWM / WUA Ordinance (AC) 1981 as amended in 2001
2.3	Date of opening an account in the bank
2.4	Date of submission as application for watercourse improvements
2.5	Date of signing an agreement for watercourse improvement

Day	Month	Year
Day	Month	Year
Day	Month	Year
Day	Month	Year
Day	Month	Year

3. Carry out watercourse improvement work

3.1	Arranged skilled and unskilled labour for earthen improvement of the watercourse
3.2	Arranged skilled and unskilled labour for watercourse lining

Yes	No	DK
Yes	No	DK

- 3.3 Arranged alternate channel for water flow during watercourse construction
- 3.4 Arranged to carry out civil works
- 3.5 Resolve disputes arising during construction the watercourse

Yes	No	NA
Yes	No	DK
Yes	No	NA

4. Maintaining of project interventions

- 4.1 The improved watercourse is properly maintained
- 4.2 Resolves disputes arising during water distribution
- 4.3 Is the laser unit properly maintained, which was delivered by the project
- 4.4 Does the WUA assists the owner of Laser unit(s) in this regard
- 4.5 Is the WST operational and properly maintained, which was delivered by the project
- 4.6 Does the WUA assists the owner of Laser unit(s) in this regard

Yes	No	NA
Yes	No	NA
Yes	No	NA
Yes	No	DK
Yes	No	DK
Yes	No	DK

5. Functional Status of the WUA

- 5.1 The WUA holds regular meetings of the association
- 5.2 Decisions are made democratically
- 5.3 Majority of the shareholders participate in the meetings
- 5.4 The WUA maintains an account in the bank

Yes	No	DK

6. Enumerator's comments

Name & Signature

Date _____

MONITORING TEMPLATE 2 (MT2)

WATERCOURSE SPOT CHECKS

Monitoring Template -2

Watercourse ID _____

NAME OF SURVEY AND DAE _____

SPOT CHECK FORM

IDENTIFICATION

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

Rectangular Watercourse

1	Removal of vegetation from watercourse properly			1-YES	2-NO
2	Actual discharge (as per Irrigation Department)		1-Adequate	2-Not adequate	
3	Is additional discharge (via. Tube Well / lift machine) at watercourse			1-YES	2-NO
4	Proportion of Total cultural commanded area of the watercourse irrigated		1-Up to 35%	2-36 to 70%	3-70% plus
5	Type of Moga / outlet	1-Open type	2-Closed	3-Closed-pipe	4-Closed-pump
6	Lining length is as per design?			1-YES	2-NO
7	Thickness of wall is as per design?			1-YES	2-NO
8	Depth of watercourse is as per design?			1-YES	2-NO
9	Width of watercourse is as per design?			1-YES	2-NO

10	Thickness of plaster at wall is adequate?			1-YES	2-NO
11	Thickness of bed is adequate?			1-YES	2-NO
12	Thickness of mortar at wall is adequate			1-YES	2-NO
13	Free board height is as per design?			1-YES	2-NO
14	Back collar mortar is adequate?			1-YES	2-NO
15	Quality of Plaster (tick one)	1-Good	2-Satisfactory	3-Not Satisfactory	
16	Back filling of the lining portion		1-Good	2-Satisfactory	3-Not Satisfactory
17	Rehabilitation of Ketcham / earthen portion of watercourse		1-Full length improved	2-Only lined portion	
18	Number of Paccka Nakkas in Katcha portion of watercourse installed	1-Number installed as required	2-Installed less than required	3-None installed	
19	Number of Pacca Nakkas in lined portion of watercourse installed	1-Number installed as required	2-Installed less than required	3-None installed	
20	Number of Culverts provided on the watercourse	1-Provided as required	2-Less than required	3-None	4-Not required

COMMENTS

Name and Signature _____

Date _____

Parabolic Watercourse

21	Removal of vegetation from watercourse properly			1-YES	2-NO
22	Is designed discharge (as per Irrigation Department)			1-Adequate	2-Not adequate
23	Is additional discharge (via. Tube Well / lift machine) at watercourse			1-YES	2-NO
24	Total cultural commanded area of WC irrigated		1-Up to 35%	2-36 to 70%	3-70% plus
25	Type of Mogha / outlet	1-Open	2-Closed	3-Closed-Pipe	4-Closed-Pump
26	Lining length is as per design?			1-YES	2-NO
27	Total length is as per design?			1-YES	2-NO
28	Quality of pre-cast parabolic segments?			1-Good	2-Not Good
29	Filling of joints of the parabolic segments			1-Good	2-Not Good
30	Slop of the parabolic segments		1-As per design		2-Not as per design
31	Back filling of pre-cast parabolic slabs		1-Proper		2-Not proper
32	Rehabilitation of Katcha / earthen portion of watercourse		1-Full length improved		2-Only lined portion
33	Number of Pacca Nakkas in Katcha/ earthen portion of watercourse	1-Number installed as required		2-Installed less than required	3-None installed
34	Number of Pacca Nakkas in lined portion of the watercourse	1-Number installed as required		2-Installed less than required	3-None installed
35	Number of Culverts provided on the watercourse	1-Provided as required	2-Less than required	3-None	4-Not required

COMMENTS

Name and Signature _____

Date _____

MONITORING TEMPLATE 3 (MT3)

PROCESS MONITORING OF WATERCOURSE IMPROVEMENT

Monitoring Template -3

Watercourse ID _____

SURVEY NAME AND DATE _____

PROCESS MONITORING FOR WATERCOURSE IMPROVEMENT

2. Identification of the Watercourse

1.1	Watercourse Number _____	1.2	Minor _____	
1.3	Distributary _____	1.4	Branch _____	
1.5	Canal _____	1.6	Tehsil _____	
1.7	District _____	1.8	Province / Area _____	
1.9	Name of WUA Chairman _____	1.10	Field Team _____	
1.11	District Team _____	1.12	Date of Interview _____	
1.13	Location of watercourse on the canal	Head	Middle	Tail
1.14	Director OFWM / Agriculture Department	_____		

Watercourse Improvement - Process Monitoring Template MT3

**** Note: This form is designed based on two major types of watercourses; Bricks and Parabolic.**

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Watercourse Improvement - Process Monitoring Template MT3

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Watercourse Improvement - Process Monitoring Template MT3

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Watercourse Improvement - Process Monitoring Template MT3

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Watercourse Improvement - Process Monitoring Template MT3

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Watercourse Improvement - Process Monitoring Template MT3

MONITORING TEMPLATE 4 (MT4)

WATERCOURSES BENEFICIARIES' FEEDBACK

Monitoring Template-4.1

Watercourse ID _____

SURVEY NAME AND DATE _____

BENEFICIARY FEEDBACK FORM-1

Use this template if the WCA has been formed and TS is issued, but work on watercourse has not yet been started at the time of survey

Identification

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

Beneficiary Feedback: Part-A

1	Are you a member of the Watercourse Association (WCA)? (If the answer is "NO" or "NA" then skip to Question 8)	1-YES	2-NO	3-NA ^(*)
2	If 'Yes' in question 1, was your participation voluntary?	1-YES	2-NO	3-NA
3	If 'Yes' in question 2 above, then who motivated you to be a member?	Fellow farmers		1
		Big Landlord		2
		Project Field Staff		3
		Any other specify)		4

(*) NA=No answer / not applicable

4	Did you pay your membership fee (if any)?	1-Yes	2-NO	3-NA
5	What is the frequency of WCA meetings?	Every month	1	
		Quarterly	2	
		Once a year	3	
		Never	4	
6	(If the answer in question 5 is 1, 2 or 3) Do you participate in the meetings?	Always	1	
		Occasionally	2	
		Never	3	
7	(If the answer in question 5 is 1, 2 or 3) Do you know that the minutes are recorded and got approved in next meeting?	Always	1	
		Occasionally	2	
		Never	3	
8	Do you think WCA helps in solving your farming problems?	Always	1	
		To some extent	2	
		Never	3	

Part-B: Beneficiary Feedback: Part-B

(if already member, skip to 11)

YES	NO	NA
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3

9	Do you know about watercourse association?	1	2	3
10	Were you approached to be member of watercourse association?	1	2	3
11	Do you know that your watercourse is going to be newly lined / additionally line / reconstructed	1	2	3
12	If the answer is '1' in 'q11 above, do you know that the lining will be up to 50% of the watercourse length?	1	2	3
13	Would you like to be a member of watercourse association?	1	2	3
14	Do you think that watercourse lining up to 50% will benefit you?	1	2	3
15	Do you think that if the watercourse is reconstructed, trees will be cut	1	2	3
16	If "YES" in Q12 above, then how many trees will be cut down?			

COMMENTS

Name and Signature _____

Date _____

Monitoring Template-4.2

Watercourse ID _____

NAME AND DATE OF SURVEY _____

BENEFICIARY FEEDBACK FORM-2

Use this template if the watercourse is under construction at the time of survey

1. Identification

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

2. Beneficiary Feedback: Part-A

1	Are you a member of the Watercourse Association (WCA)? <i>If "NO" or "NA" then skip to question 8)</i>	1-YES	2-NO	3-NA ^(*)
2	If 'Yes' in question 1 above, then indicate was your participation voluntary?	1-YES	2-NO	3-NA
3	If 'Yes' in question 2 above then indicate who motivated you to be a member?	Fellow farmers		1
		Big Landlord		2
		Project Field Staff		3
		Any other (Specify) _____		4

(*) NA=No answer / not applicable

4	Did you pay your membership fee (if any)?	1-Yes	2-NO	3-NA
5	What is the frequency of WCA meetings?	Every month	1	
		Quarterly	2	
		Once a year	3	
		Never	4	
6	(If the answer in question 5 is 1, 2 or 3) Do you participate in the meetings?	Always	1	
		Occasionally	2	
		Never	3	
7	(If the answer in question 5 is 1, 2 or 3) Do you know that the minutes are recorded and got approved in next meeting?	Always	1	
		Occasionally	2	
		Never	3	
8	Do you think WCA helps in solving your farming problems?	Always	1	
		To some extent	2	
		Never	3	

Part-B: Beneficiary Feedback: Part-B

(if already member, skip to 11)

YES	NO	NA
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3
1	2	3

9	Do you know about watercourse association?	1	2	3
10	Were you approached to be member of watercourse association?	1	2	3
11	Do you know that your watercourse is going to be newly lined / additionally line / reconstructed	1	2	3
12	If the answer is '1' in 'q11 above, do you know that the lining will be up to 50% of the watercourse length?	1	2	3
13	Would you like to be a member of watercourse association?	1	2	3
14	Do you think that watercourse lining up to 50% will benefit you?	1	2	3
15	Do you think that if the watercourse is reconstructed, trees will be cut down?	1	2	3
16	If "YES" in Q12 above, then how many trees will be cut down?			

Beneficiary Feedback: Part-C

17	Have you ever visited watercourse site as it is being improved	1-YES	2-NO	3-NA
18	If 'No' have you heard about the quality of work	1-YES	2-NO	3-NA
19	If 'Yes' do you think work quality is:	Good		1

		Average	2
		Not good	3
		No comments	4
20	If not good how?	Bricks are not of good quality	1
		Cement mix is not proper	2
		Workmanship is not good	3
		Any other (Specify) _____	4
21	Do you know that before lining work was started the watercourse was earthen improved/renovated?	1-YES	2-NO
22	If 'Yes' how much in your view watercourse length was earthen improved / renovated?	Entire length	1
		Only lining part	2
		Do not know	3
23	Did you participate in earthen improvement activity?	1-YES	2-NO
24	If 'Yes' in what form?	Contributed labour	1
		Contributed in kind	2
		Paid money	3
		Did not take part	4
		No Comments	5

COMMENTS

Name and Signature _____

Date _____

Monitoring Template -4.3

Watercourse ID _____

NAME AND DATE OF SURVEY _____

BENEFICIARY FEEDBACK FORM-3

Use this template if the watercourse has already been improved / lined at the time of survey

1. Identification

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

2. Beneficiary Feedback: Part-A

1	Are you a member of the Watercourse Association (WCA)? <i>(If answer is "NO" or "NA" then skip to question 8)</i>	1-YES	2-NO	3-NA ^(*)
2	If 'Yes' in question 1 above then, was your participation voluntary?	1-YES	2-NO	3-NA
3	If 'Yes' in question 2 above, then indicate who motivated you to be a member?	Fellow farmers		1
		Big Landlord		2
		Project Field Staff		3
		Any other (Specify) _____		4

(*) NA=No answer / Not applicable

4	Did you pay your membership fee (if any)?	1-Yes	2-NO	3-NA
5	What is the frequency of WCA meetings?	Every month	1	
		Quarterly	2	
		Once a year	3	
		Never	4	
6	<i>(If the answer in question 5 is 1, 2 or3)</i> Do you participate in the meetings?	Always	1	
		Occasionally	2	
		Never	3	
7	<i>(If the answer in question 5 is 1, 2 or3)</i> Do you know that the minutes are recorded and got approved in next meeting?	Always	1	
		Occasionally	2	
		Never	3	
8	Do you think WCA helps in solving your farming problems?	Always	1	
		To some extent	2	
		Never	3	

Part-B: Beneficiary Feedback: Part-B

(if already member, skip to 11)

		YES	NO	NA
9	Do you know about watercourse association?	1	2	3
10	Were you approached to be member of watercourse association?	1	2	3
11	Do you know that your watercourse is going to be newly lined / additionally line / reconstructed	1	2	3
12	If the answer is '1' in 'q11 above, do you know that the lining will be up to 50% of the watercourse length?	1	2	3
13	Would you like to be a member of watercourse association?	1	2	3
14	Do you think that watercourse lining up to 50% will benefit you?	1	2	3
15	Do you think that if the watercourse is reconstructed, trees will be cut down?	1	2	3
16	If "YES" in Q12 above, then how many trees will be cut down?			

4. Beneficiary Feedback: Part-C

15	Did you ever visit watercourse site as it was being improved?	1-YES	2-NO	3-NA
----	---	-------	------	------

16	If 'No' have you heard about the quality of work?		1-YES	2-NO	3-NA
17	If 'Yes' do you think work quality was		Good		1
			Average		2
			Not good		3
			No comments		4
17	If not good how?	Bricks are not of good quality			1
		Cement mix is not proper			2
		Workmanship is not good			3
		Any other (Specify) _____			4
18	Do you know that before lining work was started the watercourse was earthen improved/renovated?		1-YES	2-NO	3-NA
19	If 'Yes' how much in your view watercourse length was earthen improved / renovated?	Entire length			1
		Only lining part			2
		Do not know			3
20	Did you participate in earthen improvement activity?		1-YES	2-NO	3-NA
21	If 'Yes' in what form?	Contributed labour			1
		Contributed in kind			2
		Paid money			3
		Did not take part			4
		No Comments			5

5. Beneficiary Feedback: Part-D

22	Do you think that irrigation water availability has increased for your farm after the watercourse		1-YES	2-NO	3-NA
23	If 'Yes' how much? (Please guess keeping in view difference in acreage irrigated before and after WC improvement)		Less than 5%		1
			5%		2
			10%		3
			20%		4
			50%		5
			More than 50%		6
24	Are you satisfied with the quality of watercourse lining?		1-YES	2-NO	3-NA
25	What arrangements are made by the WCA for maintenance of the watercourse?	Members' contribution			1
		None			2

		I do not know	3
		No comments	4

COMMENTS

Name and signatures of the interviewer _____

Date _____

MONITORING TEMPLATE 5 (MT5)

WATER STORAGE TANK (WST) SPOT CHECK

Monitoring Template -5

WST ID _____

NAME OF SURVEY AND DATE _____

WATER STORAGE TANK (WST) SPOT CHECK

3. Identification of the Watercourses

1.1	Watercourse Number _____	1.2	Minor _____	
1.3	Distributary _____	1.4	Branch _____	
1.5	Canal _____	1.6	Tehsil _____	
1.7	District _____	1.8	Province / Area _____	
1.9	Name of WUA Chairman _____	1.10	Field Team _____	
1.11	District Team _____	1.12	Date of Interview _____	
1.13	Location of watercourse on the canal	Head	Middle	Tail
1.14	Director OFWM / Agriculture Department	_____		

2. SPOT CHECKS

2.1. Shape of the Water Storage Tank _____

2.2. Dimensions (Feet) Length _____ Width _____ Depth _____

S.#	Spot Check Items	Yes	No
1	The farmer completed the WST using his/her own funds before asking for subsidy		
2	The WST was completed as per approved standards and specifications		
3	Excavation was done as per standard engineering practices		

4	The PC inspected the excavation and quality of geo-membrane and certified as satisfactory		
5	Before filling the WST, the OFWM staff prepared the completion report		
6	Any variations in specifications and material used		
7	If yes in above, the subsidy was paid as per cost estimates based on geo-membrane design		

COMMENTS OF ENUMERATOR

Name and signatures _____

MONITORING TEMPLATE 6 (MT6)

PROCESS MONITORING FOR WATER STORAGE TANKS

Monitoring Template -6

WST ID _____

SURVEY NAME AND DATE _____

PROCESS MONITORING FOR WATER STORAGE TANK (WST)

4. Identification of the Watercourse

1.1	Watercourse Number _____	1.2	Minor _____	
1.3	Distributary _____	1.4	Branch _____	
1.5	Canal _____	1.6	Tehsil _____	
1.7	District _____	1.8	Province / Area _____	
1.9	Name of WUA Chairman _____	1.10	Field Team _____	
1.11	District Team _____	1.12	Date of Interview _____	
1.13	Location of watercourse on the canal	Head	Middle	Tail
1.14	Director OFWM / Agriculture Department	_____		

2. Process Monitoring

Name and signature of Interviewer _____

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Process Monitoring of Water Storage Tanks MT6

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-III

Process Monitoring of Water Storage Tanks MT6

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Process Monitoring of Water Storage Tanks MT6

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Process Monitoring of Water Storage Tanks MT6

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Process Monitoring of Water Storage Tanks MT6

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-III

Process Monitoring of Water Storage Tanks MT6

MONITORING TEMPLATE 7 (MT7)

BENEFICIARIES' FEEDBACK FOR WATER STORAGE TANKS

Monitoring Template -7

WST ID _____

SURVEY NAME AND DATE

BENEFICIARIES' FEEDBACK FOR WATER STORAGE TANKS

Identification

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

Beneficiary Feedback

1	How your application was attended by OFWM staff	Promptly	Took lot of time	No Comment
2	How you assess survey and design process	Fast Track	Lengthy	No comment
3	Quality of OFWM staff behavior	Friendly / supportive	Indifferent	No comment
4	The subsidy was paid	Within reasonable time	Required lot of efforts	No comment
5	How you feel maintenance of WST	Easy	Difficult	No comment
6	Do you think cropping intensity increased on your farm after WST	Yes	No	No comment

7	Do you think your crops / orchards yield increased after WST	Yes	No	No comment
8	Do you think WST encourages mosquito population	Yes	No	No comments
9	If yes what measures you take to control it	Sprays	None	No comment

Name and signature of enumerator _____

MONITORING TEMPLATE 8.1 (MT8.1)

MONITORING TRAINING OF OWNERS OF LASER UNITS

MONITORING TEMPLATE 8.2 (MT8.2)

PROCESS MONITORING FOR PROVISION OF LASER UNITS

Monitoring Template-8.1

Laser Unit ID: _____

Monitoring and Evaluation Consultants (M&EC)

CHECKLIST FOR MONITORING OF OPERATORS OF LASER UNITS

1. IDENTIFICATION

1.1	Watercourse Number _____	1.2	Minor _____	
1.3	Distributary _____	1.4	Branch _____	
1.5	Canal _____	1.6	Tehsil _____	
1.7	District _____	1.8	Province / Area _____	
1.9	Name of WUA Chairman _____	1.10	Field Team _____	
1.11	District Team _____	1.12	Date of Interview _____	
1.13	Location of watercourse on the canal	Head	Middle	Tail
1.14	Director OFWM / Agriculture Department	_____		

AREAS OF TRAINING

Areas of training for farmers / service providers / operators of the laser units:

- a) Survey and designing for laser land leveling
- b) Planning and development of farm layouts considering soil type, farmer's tillage equipment, crops to be grown, source / quality of irrigation supplies, etc.
- c) Operation of laser units
- d) Maintenance and trouble-shooting of the equipment

2. EXTENT OF PARTICIPATION

2.1. Number of Trainees Expected: Male (No) _____ Female (No) _____

2.2. Actually Participated: Male (No) _____ Female (No) _____

3. AVAILABILITY OF FACILITIES

3.1. Audio-Visual Aids for Training

Blackboard	Yes	No	Flip Charts	Yes	No
Overhead Projector	Yes	No	Multimedia	Yes	No
White Board	Yes	No	Any other _____	Yes	No

3.2. Refreshments Provided to the Participants Yes No

3.3. Necessary Stationery for the trainees Yes No

3.4. Handouts provided to the trainees Yes No

3.5. Copies of the curriculum provided to the trainees Yes No

4. OTHER ASSESSMENT ITEMS

S.#	Assessment Items	Evaluator's Judgment (cross the relevant box)				
		1	2	3	4	5
4.1	Coverage					
	i) Extent of coverage of the curriculum					
	ii) Depth of trainer's knowledge					
	iii) Other related topics covered					
4.2	Effectiveness of the Speakers/Trainers					
	i) How subject matter was introduced					
	ii) Use of Participatory Approach					
	iii) Clarity/command on the subject					
	iv) Style of delivery					
	v) Reference to handouts/training material					
	vi) Confidence of the trainer					
	vii) Use of Audio-Visual Aids					
	viii) Handouts Provided					

	ix) Level of Interest Maintained					
	x) Managed Session within Time Limit					
	xi) Effective Reply to Questions					
	xii) Explained with examples					
4.3	Group Discussions					
	i) Level of Participation of Trainees					
	ii) Question Answer session Held					
	ii). Quality of Group Discussions					
4.4	Training Environment					
	i) Seating Arrangement					
	ii) Comfort of Participants					
	ii). General Discipline					
	iv) Participation Environment/Encouragement					
	v) General Treatment Extended by TAT Staff					
4.5	Participants/Trainees					
	i) Enthusiasm					
	ii) Level of Participation/Involvement					
	iii) Regularity/Attendance					
4.6	Overall Assessment of the Training Process					

Note: 1 Excellent; 2 Very good; 3 Good; 4 Satisfactory; 5 Not Satisfactory

5. General Comments

6. Name of Monitor _____ Signatures _____

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Laser Land Leveler - Process Monitoring Template MT8.2

NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II

Laser Land Leveler - Process Monitoring Template MT8.2

MONITORING TEMPLATE 9 (MT9)

BENEFICIARIES' FEEDBACK FOR LASER UNITS

Monitoring Template -9

LASER UNIT ID _____

SURVEY NAME AND DATE _____

BENEFICIARIES' FEEDBACK FOR LASER UNITS

1. Identification

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

2. BENEFICIARY FEEDBACK

1	Delivery of the unit	Timely	Delayed		No comments
2	Quality / durability of the unit	Good	Satisfactory	Not satisfactory	Do not Know
3	After sale service of the SSC	Good	Poor	Very Poor	Do not Know
4	Complaints attended by the SSC	Promptly	Not Promptly	No Response	Do not Know
5	Rates charged by the SSC to provide the after-sale service	Costly	Normal	Do not know	
6	Availability of spares	When required	Takes long time	Do not know	

7	Prices charged by the SSC for the spares	Costly	Normal	Do not know
8	Spares are available	Only with the SSC	From open market	I did not need yet
9	Raining Survey and design		Yes	No
10	Training in Planning and layout		Yes	No
11	Training in operation of the unit		Yes	No
12	Training in maintenance and trouble shooting		Yes	No

Name and Signature of the enumerator _____

MONITORING TEMPLATE 10 TO 15

BASELINE SURVEY OF WATERCOURSES

Monitoring Template -10

Watercourse ID _____

NAME AND DATE OF SURVEY _____

VILLAGE PROFILE

A. IDENTIFICATION

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

B. VILLAGE SOCIO-ECONOMIC DATA

1. Total Population of the village (Persons)		2. Number of farming households	
3. Number of artisan households		4. Number of laboring households	
5. Number of business / trading households		6. Number of other households (e.g. doing govt. or private service)	
7. Total command area of the village (Acres)		8. Number of watercourses in the village	
9. Number of watercourses in the village		10. Availability of electricity	1-YES 2-NO
11. Source of drinking water (tick two major sources)	1-Hand Pump	2-Well	3-Water Supply scheme 4-Other
12. Sources of irrigation water	1-Canal	2-Tube Well	3-Canal +Tube Well 4-Rain-Fed

C. AVAILABILITY OF SERVICES / FACILITIES

S.#	How close are the following Services facilities from the village	In the village	Distance if not in the village (Km)
1	Police station		
2	City / town		
3	Metaled road		
5	Telephone service		
6	Bank branch office		
7	Post office		
8	Public Transport		
9	Primary school for boys		
10	Primary school for girls		
11	Secondary School for boys		
12	Secondary School for girls		
13	College for boys		
14	College for girls		
15	Basic Health Unit (BHU)		
16	Rural Health Center		
17	PPHI Center		
18	Community center		
19	Mobile shop		
20	Agriculture extension office		
21	Water Management office		
22	Agriculture bank		
23	Farm Produce Market (Mandi)		

S.#	How close are the following Services facilities from the village	In the village	Distance if not in the village (Km)
24	Veterinary hospital		
25	Pesticide dealer		
26	NGO office		
27	Fertilizer shop		

28	Seeds shop		
29	Kiryana (grocery) shop		
30	Tractor Mechanic Shop		

D. LIST OF MAJOR CROPS GROWN IN THE VILLAGE (Tick all crops reported)

Name of Crop	Tick (v)	Name of Crop	Tick (v)
1. Wheat		2. Rice	
3. Cotton		4. Sugarcane	
5. Sunflower		6. Rape Seed and Mustered	
7. Mango		8. Dates	
9. Banana		10. Tomato	
11. Chilli		12. Okra	
13. Onion		14. Fodder	
15. Any Other (Specify) _____		16. Any Other (Specify) _____	

E. Agriculture Output Prices

S.#	Name of Crop	Product (Rs./Md)	Bi-Product (Rs./Md)
1	Wheat		
2	Rice		
3	Cotton		
4	Sugarcane		
5	Sunflower		
6	Rapeseed		
7	Mango		
8	Dates		
9	Banana		
10	Tomato		
11	Chilli		
12	Okra		
13	Onion		
14	Fodder		

F. Agriculture input prices including transportation cost

S.#	Commodities/Inputs	Unit	Unit Price (Rs.)
1	Urea	Bag	
2	DAP	Bag	
3	Potash	Bag	
4	SSP	Bag	
5	23-23	Bag	
6	FYM	Ton	
7	Seed of Wheat	Kg	
8	Seed of Rice	Kg	
9	Seed of Cotton	Kg	
10	Seed of Sugarcane	Kg	
11	Seed of sunflower	Kg	
12	Seed of Rapeseed	Kg	
13	Seed of Tomato	Kg	
14	Seed of chilli	Kg	
15	Seed of Okra	Kg	
16	Seed of Onion	Kg	
17	Tractor use	Hour	
18	Tube Well Water	Hour	

19	Thresher	Hour	
20	Laser Land Levelling	Hour	
21	Deep Ripping	Hour	
22	Labour	Day	

COMMENTS

Name and Signature _____

Date _____

Monitoring Template -11

Watercourse ID _____

NAME AND DATE OF SURVEY _____

LIST OF WATERCOURSE SHAREHOLDERS

1. Identification of the Watercourse

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

2. Shareholders List

S.#	Name of Shareholder	Area Owned (Acres)	Area Rented-in (Acres)	Area Rented-out (Acres)	Area operated (Acres)	Gender 1. Male; 2. Female	Location on WC 1. Head, 2. Middle, 3. Tail
1							
2							
3							
4							
5							
6							

S.#	Name of Shareholder	Area Owned (Acres)	Area Rented-in (Acres)	Area Rented-out (Acres)	Area operated (Acres)	Gender 1. Male; 2. Female	Location on WC 1. Head, 2. Middle, 3. Tail
7							
8							
9							
10							
11							
12							

Note: Use additional sheets if the number is more than 14.

Name and signature of Interviewer _____ Date _____

Monitoring Template -12

Watercourse ID _____

NAME AND DATE OF SURVEY _____

LIST OF WATERCOURSE BENEFICIARY

1. Identification of the Watercourse

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

2. List of Beneficiary

S.#	Name of Share Croppers / tenants / Lease holders, etc.	Area operated in Acres	Gender 1. Male; 2. Female	Location on WC 1. Head; 2. Middle; 3. Tail
1				
2				
3				
4				
5				

S.#	Name of Share Croppers / tenants / Lease holders, etc.	Area operated in Acres	Gender 1. Male; 2. Female	Location on WC 1. Head; 2. Middle; 3. Tail
6				
7				
8				
9				
10				
11				
12				

Note: Use additional sheets if the number is more than 12.

Name and signature of Interviewer _____ Date _____

Monitoring Template -13

Watercourse ID _____

NAME AND DATE OF THE SURVEY _____

BRIEF PROFILE OF SELECTED WATERCOURSE

S. #	QUESTIONS	ANSWERES		
1	Name of selected watercourse			
2	Name of Canal			
3	Name of Distributary/Branch/minor			
4	Name of Village			
5	Name of Taluka			
6	Name of District			
7	Name of District Team			
8	Name of Field Team			
9	Status of watercourse improvement. <i>(please tick one code which shows the latest stage of the watercourse improvement)</i>	Code	Status	
		4	Technical Sanction (TS) issued	
		5	First milestone certification issued	
		6	Second milestone issued	
		7	Final Completion Report (FCR) issued	
		8	Watercourse handed over to WCA	
10	If the watercourse has been handed over to watercourse association, mention date of handing over	DD	MM	YEAR
11	Total lining length in meters if WC has been completed / handed over			
12	Total length of the watercourse in meters			
13	Total command area of the watercourse in acres			

S. #	QUESTIONS	ANSWERES		
14	Location of the WC on Distributary/Minor, etc. (tick one)	1-Head	2-Middle	3-Tail
15	Quality of underground water	1-Saline	2-Fresh	
16	Number of shareholders (owners) on the watercourse by size of farm	Farm stage category		Number
		Small (up to 12.5 acres)		
		Medium (Above 12.5 up to 25 acres)		
		Large (Above 25 acres)		
17	Number of other beneficiaries including "tenants", "Farming on Annual Lease basis" and others	Farm stage category		Number
		Small (up to 12.5 acres)		
		Medium (Above 12.5 up to 25 acres)		
		Large (Above 25 acres)		
18	Mode of lining (tick one)	1-Rectangular	2-Parabolic	3-PVC Pipe
19	Sanctioned Discharge (LPS)		17. Design Discharge (LPS)	

COMMENTS

Name and Signature _____

Date _____

Watercurses Data from the Client for Sampling MT14

Monitoring Template -15

Watercourse ID _____

NAME AND DATE OF THE SURVEY _____

QUESTIONNAIRE FOR FARMING HOUSEHOLDS

1. IDENTIFICATION

1.1	Watercourse Number _____	1.2	Minor _____	
1.3	Distributary _____	1.4	Branch _____	
1.5	Canal _____	1.6	Tehsil _____	
1.7	District _____	1.8	Province / Area _____	
1.9	Name of WUA Chairman _____	1.10	Field Team _____	
1.11	District Team _____	1.12	Date of Interview _____	
1.13	Location of watercourse on the canal	Head	Middle	Tail
1.14	Director OFWM / Agriculture Department	_____		

2. FAMILY PROFILE

S.#	Family Relation with Respondent	Gender Male=1 Female=2	Age (Years)	Education (Years) If "0" go to 6.	Literacy Literate=1 Illiterate=2	Occupation (insert code)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Occupation codes:

Occupation	Code	Occupation	Code	Occupation	Code	Occupation	Code
Farming	1	Govt. Service	2	Labour	3	Shopkeeper	4
Artisan	5	Business	6	Household Work	7	Other	8

3. FARM SIZE (Acres)

Acreage		Acreage	
Area Owned		Area not cultivated	
Area Rented-In		Fallow land	
Area Rented-Out			

4.1. CROP ACREAGE AND INPUTS (Rabi Year _____ and Kharif Year _____)

Name of Crop	Crop Area (acres)	Land Preparation with tractor		Laser Land Leveling		Deep Ripping		Use of Seed	
		Acres	Hr./Ac.	Acres	Hr./Ac.	Acres	Hr./Ac.	Kg/acre	Rs./Kg
Wheat									
Rice									
Cotton									
Sugarcane (Ratoon)									
Sugarcane (New)									
Sunflower									
Rapeseed, mustard, canola									
Mango Orchard (Old)									
Mango Orchard (New)									
Dates Orchard (Old)									
Dates Orchard (New)									
Banana Orchard (Old)									
Banana Orchard (New)									
Lemon Orchard (Old)									
Lemon Orchard (New)									
Hena Plantation (Old)									
Hena Plantation (New)									
Tomato									
Chili									
Okra									
Onion									
Rabi Fodder									
Kharif Fodder									
Other Orchard (New)-Name									
Other Orchard (Old)-Name									
Other Field Crop-Name									
Other Vegetable-Name									

4.2. CROP INPUTS (Rabi Year _____ and Kharif Year _____)

Name of Crop	Seedling Cost Total (Rs.)		Total Cost of plants for orchards /hena plantation Rs.	Use of Chemical Fertilizers (Bags)				Use of Chemicals	
	Home Grown	Bought		Urea	DAP	Potash (SOP)	NP (23-23)	Other	Area treated (Acres)
Wheat									
Rice									
Cotton									
Sugarcane (Ratoon)									
Sugarcane (new)									
Sunflower									
Rapeseed, mustard,									
Mango Orchard (Old)									
Mango Orchard (New)									
Dates Orchard (Old)									
Dates Orchard (New)									
Banana Orchard (Old)									
Banana Orchard (New)									
Lemon Orchard (Old)									
Lemon Orchard (New)									
Hena Plantations (Old)									
Hena Plantations (new)									
Tomato									
Chili									
Okra									
Onion									
Rabi Fodder									
Kharif Fodder									
Other Orchard Old-									
Other Orchard New- Name									
Other Field Crop-Name									
Other Vegetable - Name									

4.3. CROP INPUTS (Rabi Year _____ and Kharif Year _____)

Name of Crop	Use of FYM			Tube-well Irrigation		Stalking		Mulching		Picking by family and permanent hire labour	
	Area treated (Acres)	Ton/Trolley per acre	Rs./ trolley	Area treated (Acres)	Hours/Acre	Area Treated (Acres)	Material Cost per acre (Rs.)	Area Treated (Acres)	Material Cost per acre (Rs.)	Area picked (Acres)	Number of picking per acre
Wheat											
Rice											
Cotton											
Sugarcane (Ratoon)											
Sugarcane (new)											
Sunflower											
Rapeseed, mustard,											
Mango Orchard (Old)											
Mango Orchard (New)											
Dates Orchard (Old)											
Dates Orchard (New)											
Banana Orchard (Old)											
Banana Orchard (New)											
Lemon Orchard (Old)											
Lemon Orchard (New)											
Hena Plantations (Old)											
Hena Plantations (new)											
Tomato											
Chili											
Okra											
Onion											
Rabi Fodder											
Kharif Fodder											
Other Orchard Old-											
Other Orchard New-											
Name											
Other Field Crop-Name											
Other Vegetable -											

4.4. CROP INPUTS (Rabi Year _____ and Kharif Year _____)

Name of Crop	Contractual Picking			Material cost for packing (Rs. Per Kg)	Material cost for Sacking (Rs. Per 40 Kg)	Harvesting by Family and permanent hired labour (Acres)	Harvesting by contractual labour		Threshing through contractor	
	Area picked by pickers (Acres)	Number of picking per acre	Share of pickers in output (%)				Acres harvested	Share of harvesters in output (%)	Acres threshed	Share of contractor in the output (%)
Wheat										
Rice										
Cotton										
Sugarcane (Ratoon)										
Sugarcane (new)										
Sunflower										
Rapeseed, mustard, Canola										
Mango Orchard (Old)										
Mango Orchard (New)										
Dates Orchard (Old)										
Dates Orchard (New)										
Banana Orchard (Old)										
Banana Orchard (New)										
Lemon Orchard (Old)										
Lemon Orchard (New)										
Hena Plantations (Old)										
Hena Plantations (new)										
Tomato										
Chili										
Okra										
Onion										
Rabi Fodder										
Kharif Fodder										
Other Orchard Old-Name										
Other Orchard New-Name										
Other Field Crop-Name										
Other Vegetable - Name										

5.1. Labour Input in Man-Days per Acre (Rabi Year _____ and Kharif Year _____)

Name of Crop	Laser Land Leveling				Deep Ripping				Land Preparation			
	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾	
	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat												
Rice												
Cotton												
Sugarcane (Ratoon)												
Sugarcane (new)												
Sunflower												
Rapeseed, mustard, Canola												
Mango Orchard (Old)												
Mango Orchard (New)												
Dates Orchard (Old)												
Dates Orchard (New)												
Banana Orchard (Old)												
Banana Orchard (New)												
Lemon Orchard (Old)												
Lemon Orchard (New)												
Hena Plantations (Old)												
Hena Plantations (new)												
Tomato												
Chili												
Okra												
Onion												
Rabi Fodder												
Kharif Fodder												
Other Orchard Old-Name												
Other Orchard New-Name												
Other Field Crop-Name												
Other Vegetable - Name												

(1) Permanent Hired Labour (PHL)

(2) Casual Hired Labour (CHL)

(3) M=Male; and F=Female

5.2. Labour Input in Man-Days per Acre (Rabi Year _____ and Kharif Year _____)

Name of Crop	Seed Treatment				Sowing				Transplantation			
	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾	
	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat												
Rice												
Cotton												
Sugarcane (Ratoon)												
Sugarcane (new)												
Sunflower												
Rapeseed, mustard, Canola												
Mango Orchard (Old)												
Mango Orchard (New)												
Dates Orchard (Old)												
Dates Orchard (New)												
Banana Orchard (Old)												
Banana Orchard (New)												
Lemon Orchard (Old)												
Lemon Orchard (New)												
Hena Plantations (Old)												
Hena Plantations (new)												
Tomato												
Chili												
Okra												
Onion												
Rabi Fodder												
Kharif Fodder												
Other Orchard Old-Name												
Other Orchard New-Name												
Other Field Crop-Name												
Other Vegetable – Name												

(1) Permanent Hired Labour (PHL)

(2) Casual Hired Labour (CHL)

(3) M=Male; and F=Female

5.3. Labour Input in Man-Days per Acre (Rabi Year _____ and Kharif Year _____)

Name of Crop	Plantation				Fertilizer Application				FYM Application			
	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾	
	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat												
Rice												
Cotton												
Sugarcane (Ratoon)												
Sugarcane (new)												
Sunflower												
Rapeseed, mustard, Canola												
Mango Orchard (Old)												
Mango Orchard (New)												
Dates Orchard (Old)												
Dates Orchard (New)												
Banana Orchard (Old)												
Banana Orchard (New)												
Lemon Orchard (Old)												
Lemon Orchard (New)												
Hena Plantations (Old)												
Hena Plantations (new)												
Tomato												
Chili												
Okra												
Onion												
Rabi Fodder												
Kharif Fodder												
Other Orchard Old-Name												
Other Orchard New-Name												
Other Field Crop-Name												
Other Vegetable - Name												

(1) Permanent Hired Labour (PHL)

(2) Casual Hired Labour (CHL)

(3) M=Male; and F=Female

5.4. Labour Input in Man-Days per Acre (Rabi Year _____ and Kharif Year _____)

Name of Crop	Hoeing				Thinning				Irrigations (tube-well and canal)						
	Acres treated	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Acres treated	Family +PHL ⁽¹⁾		CHL ⁽²⁾		No. of irrigations per acre	Family +PHL ⁽¹⁾		CHL ⁽²⁾	
		M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾		M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾		M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat															
Rice															
Cotton															
Sugarcane (Ratoon)															
Sugarcane (new)															
Sunflower															
Rapeseed, mustard,															
Mango Orchard (Old)															
Mango Orchard (New)															
Dates Orchard (Old)															
Dates Orchard (New)															
Banana Orchard (Old)															
Banana Orchard (New)															
Lemon Orchard (Old)															
Lemon Orchard (New)															
Hena Plantations (Old)															
Hena Plantations (new)															
Tomato															
Chili															
Okra															
Onion															
Rabi Fodder															
Kharif Fodder															
Other Orchard Old-Name															
Other Orchard New-															
Other Field Crop-Name															
Other Vegetable - Name															

(1) Permanent Hired Labour (PHL)

(2) Casual Hired Labour (CHL)

(3) M=Male; and F=Female

5.5. Labour Input in Man-Days per Acre (Rabi Year _____ and Kharif Year _____)

Name of Crop	Sprays				Pruning				Pollination						
	Acres treated	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Acres treated	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Acres Treated	Family +PHL ⁽¹⁾		CHL ⁽²⁾	
		M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾		M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾		M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat															
Rice															
Cotton															
Sugarcane (Ratoon)															
Sugarcane (new)															
Sunflower															
Rapeseed, mustard,															
Mango Orchard (Old)															
Mango Orchard (New)															
Dates Orchard (Old)															
Dates Orchard (New)															
Banana Orchard (Old)															
Banana Orchard (New)															
Lemon Orchard (Old)															
Lemon Orchard (New)															
Hena Plantations (Old)															
Hena Plantations (new)															
Tomato															
Chili															
Okra															
Onion															
Rabi Fodder															
Kharif Fodder															
Other Orchard Old-															
Other Orchard New-															
Other Field Crop-Name															
Other Vegetable - Name															

(1) Permanent Hired Labour (PHL)

(2) Casual Hired Labour (CHL)

(3) M=Male; and F=Female

5.6. Labour Input in Man-Days per Acre (Rabi Year _____ and Kharif Year _____)

Name of Crop	Picking				Harvesting				Thrashing			
	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾	
	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat												
Rice												
Cotton												
Sugarcane (Ratoon)												
Sugarcane (new)												
Sunflower												
Rapeseed, mustard,												
Mango Orchard (Old)												
Mango Orchard (New)												
Dates Orchard (Old)												
Dates Orchard (New)												
Banana Orchard (Old)												
Banana Orchard (New)												
Lemon Orchard (Old)												
Lemon Orchard (New)												
Hena Plantations (Old)												
Hena Plantations (new)												
Tomato												
Chili												
Okra												
Onion												
Rabi Fodder												
Kharif Fodder												
Other Orchard Old-												
Other Orchard New-												
Other Field Crop-Name												
Other Vegetable - Name												

(1) Permanent Hired Labour (PHL)

(2) Casual Hired Labour (CHL)

(3) M=Male; and F=Female

5.7. Labour Input in Man-Days per Acre (Rabi Year _____ and Kharif Year _____)

Name of Crop	Packing / Sacking				Loading				Marketing			
	Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾		Family +PHL ⁽¹⁾		CHL ⁽²⁾	
	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat												
Rice												
Cotton												
Sugarcane (Ratoon)												
Sugarcane (new)												
Sunflower												
Rapeseed, mustard,												
Mango Orchard (Old)												
Mango Orchard (New)												
Dates Orchard (Old)												
Dates Orchard (New)												
Banana Orchard (Old)												
Banana Orchard (New)												
Lemon Orchard (Old)												
Lemon Orchard (New)												
Hena Plantations (Old)												
Hena Plantations (new)												
Tomato												
Chili												
Okra												
Onion												
Rabi Fodder												
Kharif Fodder												
Other Orchard Old-Name												
Other Orchard New-Name												
Other Field Crop-Name												
Other Vegetable - Name												

(1) Permanent Hired Labour (PHL)

(2) Casual Hired Labour (CHL)

(3) M=Male; and F=Female

5.8. Labour Input

Name of Crop	Any other Activity			
	Family +PHL ⁽¹⁾		CHL ⁽²⁾	
	M ⁽³⁾	F ⁽³⁾	M ⁽³⁾	F ⁽³⁾
Wheat				
Rice				
Cotton				
Sugarcane (Ratoon)				
Sugarcane (new)				
Sunflower				
Rapeseed, mustard, Canola				
Mango Orchard (Old)				
Mango Orchard (New)				
Dates Orchard (Old)				
Dates Orchard (New)				
Banana Orchard (Old)				
Banana Orchard (New)				
Lemon Orchard (Old)				
Lemon Orchard (New)				
Hena Plantations (Old)				
Hena Plantations (new)				
Tomato				
Chili				
Okra				
Onion				
Rabi Fodder				
Kharif Fodder				
Other Orchard Old-Name				
Other Orchard New-Name				
Other Field Crop-Name				
Other Vegetable - Name				

- 1. Permanent Hired Labour (PHL)
- 2. Casual Hired Labour (CHL)
- 3. M=Male; and F=Female

6.1. Crop Yield (Maund /Acre)

3.2. Input prices including transportation charges

Commodity	Unit	Unit Price (Rs.)	Commodity	Unit	Unit Price Rs
Urea			Tractor Hours		
DAP			Tube Well Water		
POTASH			Wheat Threshing		
SSP			Rice Threshing		
23-23			Laser Land Leveling		
FYM (Ton)			Deep Ripping		
Seed of wheat			Any Other		
Seed of Rice			Tube Well Water per hour		
Seed of cotton			Abyana per acre		
Seed of Sugarcane			Lift Pump per hour		
Seed of Sunflower			Laser charges per		
Seed of Rapeseed			Thresher Rs. Per hour		
Seed of Tomato			Permanent hired		
Seed of Chili			Permanent hired		
Seed of Okra					
Seed of Onion					

3.3. Prices of Agriculture Products

Name of Crop	Product (Rs./Maund)	Bi-Product (Rs./Maund)	Name of Crop	Product (Rs./Maund)	Bi-Product (Rs./Maund)
Wheat			Tomato		
Rice			Chili		
Cotton			Okra		
Sugarcane			Onion		
Sunflower			Fodder		
Rapeseed					
Mango					
Dates					
Banana					

4. Respondent's Perception about Water Saving

7.1.	How many acres of land were irrigated in one turn before laser land leveling?		
7.2	How many acres are irrigated in one turn after laser land leveling?		
7.3	Do you think crop yields have increased in the fields where laser land leveling was done?	Yes	No
7.4	Do you think waterlogging has reduced after watercourse lining?	Yes	No
7.5	Do you think salinity has reduced after watercourse lining	Yes	No

COMMENTS

Name and Signatures: _____

MONITORING TEMPLATE 16 (MT16)

WATER STORAGE TANKS CAPACITY DATA

Monitoring Template -16

WST ID _____

SURVEY NAME AND DATE

WATER STORAGE TANK CAPACITY / WATER SAVING DATA

1 Identification

1.1	Watercourse Number _____	1.2	Minor _____	
1.3	Distributary _____	1.4	Branch _____	
1.5	Canal _____	1.6	Tehsil _____	
1.7	District _____	1.8	Province / Area _____	
1.9	Name of WUA Chairman _____	1.10	Field Team _____	
1.11	District Team _____	1.12	Date of Interview _____	
1.13	Location of watercourse on the canal	Head	Middle	Tail
1.14	Director OFWM / Agriculture Department	_____		

2. Beneficiary Feedback: Part-A

To estimate water saving due to WSTs, first a pilot survey will be done to know the patterns of WST fillings and water intakes from the tank. After acquiring this information, methodology for water saving from the WSTs will be devised and implemented.

Name and signature of enumerators _____

MONITORING TEMPLATE 17 (MT17)
WATERCOURSE FLOW MEASUREMENT DATA

Monitoring Template 17

Watercourse ID _____

Pygmy Current Meter PCM) Readings for Determination of Velocity

1. IDENTIFICATION

1.1 Watercourse Number _____ 1.2 Minor _____

1.3 Distributary _____ 1.4 Branch _____

1.5 Canal _____ 1.6 Tehsil _____

1.7 District _____ 1.8 Province / Area _____

1.9 Name of WUA Chairman _____ 1.10 Field Team _____

1.11 District Team _____ 1.12 Date of Interview _____

1.13 Location of watercourse on the canal Head Middle Tail

1.14 Director OFWM / Agriculture Department _____

2. Watercourse Improvement Status

1	Total Watercourse Length in Meters _____				
2	Stage of Watercourse Improvement (tick)	Improved		Not improved	
3	If watercourse is improved or TS issued then length of lining part in meters _____				
4	Type of lining if improved	Brick	Parabolic	PVC Pipe	
5	Name of Enumerator	A16	Signature with date _____		

B. STATION -1: PYGMY CURRENT METER READINGS NEAR WATERCOURSE OUTLET (At about 10 meters away from Mogha)

<u>PYGMY CURRENT METER READING WITH</u>		
b) X-section width from edge of WC in inches _____ : d) WC depth in inches _____		
Observations	Pygmy Current Meter Depth in inches	Pygmy Current meter revolution counts in 40 seconds
Observation-1	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 1 to 2 feet, skip to next station OTHERWISE CONTINUE WITH 'Observation-2'

Observation-2	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 2 to 3 feet skip to next station, otherwise continue with 'observation-3'

Observation-3	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

SKETCH OF WATERCOURSE CROSS SECTION AREA		
COMMENTS:		

C. **STATION-2: PYGMY CURRENT METER READINGS CLOSE TO THE END OF LINING PART (At about 10 meters before the end)**

<u>PYGMY CURRENT METER READING WITH</u>		
b) X-section width from edge of WC in inches _____ : d) WC depth in inches _____		
Observations	Pygmy Current Meter Depth in inches	Pygmy Current meter revolution counts in 40 seconds
Observation-1	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 1 to 2 feet, skip to next station OTHERWISE CONTINUE WITH 'Observation-2'

Observation-2	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 2 to 3 feet skip to next station, otherwise continue with 'observation-3'

Observation-3	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

SKETCH OF WATERCOURSE CROSS SECTION AREA

COMMENTS:

D. STATION-3: PYGMY CURRENT METER READINGS AT MID POINT OF MIDDLE REACH OF THE WATERCOURSE (At about middle of total length of the watercourse)

<u>PYGMY CURRENT METER READING WITH</u>		
b) X-section width from edge of WC in inches _____ : d) WC depth in inches _____		
Observations	Pygmy Current Meter Depth in inches	Pygmy Current meter revolution counts in 40 seconds
Observation-1	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 1 to 2 feet, skip to next station OTHERWISE CONTINUE WITH 'Observation-2'

Observation-2	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 2 to 3 feet skip to next station, otherwise continue with 'observation-3'

Observation-3	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

SKETCH OF WATERCOURSE CROSS SECTION AREA

COMMENTS:

**E. PYGMY CURRENT METER READINGS AT MID POINT OF TAIL REACH OF THE WATERCOURSE
 (At about 75% length of the watercourse)**

<u>PYGMY CURRENT METER READING WITH</u>		
b) X-section width from edge of WC in inches _____ : d) WC depth in inches _____		
Observations	Pygmy Current Meter Depth in inches	Pygmy Current meter revolution counts in 40 seconds
Observation-1	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 1 to 2 feet, skip to next station OTHERWISE CONTINUE WITH 'Observation-2'

Observation-2	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

If the cross-section of the watercourse is 2 to 3 feet skip to next station, otherwise continue with 'observation-3'

Observation-3	Depth-1 in inches _____	
	Depth-2 in inches _____	
	Depth-3 in inches _____	

SKETCH OF WATERCOURSE CROSS SECTION AREA

COMMENTS:

Name and Signature of Measurer _____

MONITORING TEMPLATE 18 (MT18)

LASER UNITS OPERATIONS DATA

Monitoring Template -18

Serial Number of Laser Unit _____

**FOLLOW UP VISIT TO THE
LASER LAND LEVELING EQUIPMENT RECEIVERS**

A. Identification

A1. Name of Farmer / Service Provider with address: _____

A2. Make and Model laser unit _____ A3. Date of Delivery _____

A4. Farm Size _____ A5. Location at W/C: Head / Middle / Tail

A6. Name of Water Course _____ A7. Name of Tube well _____

A8. Minor/Distributary _____ A9. Canal _____

A10. Field Team _____ A11. Village _____ 12. Taluka _____

A13 District _____ A14. Directorate _____

A15. Date of Field Visit by M&E team _____

B. Monitoring Checklist

B1	B1.1. The unit is in physical possession of the farmer / service provider as verified by the M&E team	Yes	No
	If 'YES' continue with B1-2, otherwise skip to B1.4		
	B1.2. Indicate make and model of the unit (tick the unit that was physically verified and also specify address where Laser physically placed/working) at the time of M&E team visited: B1.2.1. Village: _____ B1.2.2. Taluka: _____ B1.2.3. District: _____ B1.2.4. Region: _____ (TAKE SNAPS OF THE UNIT WITH DATE AND COORDINATES)	AG 401 AGL 3000 S AGRO Lasers Smart Alpha XD 32, MEI 367 SB AMA Laser DL 50	LL300S HIL TI PR2-HS Proshot Pioneer XD Any other pl. Specify: Good Satisfactory Not satisfactory
	B1.3. Condition / upkeep of the unit	Good	Satisfactory
	Satisfactory	Not satisfactory	
	Skip to B2		

	B1.4. If "NO" in question-B1.1, then reasons	B1.4(a) The service provider did not allow to see the unit	1	
		B1.4(b) It was told that the unit was sent for land leveling and the SP disagree to take the team	2	
		B1.4(c) Anything else (specify) _____	3	
B2	The service provider / farmer uses the laser unit for agricultural purposes only	Yes	No	
B3	Do you have one trained operator for your equipment?	Yes	No	
B4	Qualification of Operator: Primary/Middle _____ Matric _____ Inter& above _____			
B5	The operator has been given training in:	B5.1. Operation of Laser Leveler	Yes	No
		B5.2. Trouble Shooting	Yes	No
		B5.3. Repair & maintenance	Yes	No
		B5.4. Any other	Yes	No
B6	Keeps record of land leveled in writing or in memory (If "YES" continue with question-B7; if "NO" skip to question-B10)	Yes	No	
B7	Method of record keeping	B7.1. Keeps record in a logbook	1	
		B7.2. On loose papers /things	2	
		B7.3. Not in writing	3	
B8	Level of record keeping	Complete record is kept	1	
		Partial	2	
B9	Type information kept regarding farmers whose land was leveled (tick)	B9.1. Name of farmers served	1	
		B9.2. Land holding of farmers	2	
		B9.3. Area leveled in acres	3	
		B9.4. Date of land leveled	4	
		B9.5. Any other	5	
B10	B10.1. Submission of monthly progress report (If the answer is '1' or '2' then ask the farmer to show the last progress report submitted. B10.2. (Write month here _____) B10.3. (Write total area leveled in acres _____)	Regular	1	
		Occasional	2	
		Never	3	

B11	Land levelled during the last crop season (acres)	B11.1. Own land (acres)	
-----	---	-------------------------	--

				B11.2. Others' land (acres)		
				B11.3. Number of farmers served		
				B11.4. Duration in months		
B12	Receipts of expenditure relating to the equipment (tick)	B13.1. Keeps details of receipt			1	
		B13.2. Detail of expenditures			2	
		B13.3. Any other			3	
B13.	Detail of land leveled in acres during September, 2019 to August, 2020					
	Q. No.	Months, Years	Own land leveled in acres (a)	Land leveled on rent in acres (b)	Number of farmers served (c)	Rate per acre/hr in Rupees. (d)
						Hour
	B16.1	September, 2019				
	B16.2	October, 2019				
	B16.3	November, 2019				
	B16.4	December, 2019				
	B16.5	January, 2018				
	B16.6	February, 2020				
	B16.7	March, 2020				
	B16.8	April, 2020				
	B16.9	May, 2020				
	B16.10	June, 2020				
	B16.11	July, 2020				
	B16.12	August, 2020				

	Detail of land leveled in acres during September, 2020 to August, 2021					
	Q. No.	Months, Years	Own land leveled in acres (a)	Land leveled on rent in acres (b)	Number of farmers served (c)	Rate per acre in Rupees (d)
						Hour
	B17.1	September, 2020				
	B17.2	October, 2020				
	B17.3	November, 2020				
	B17.4	December, 2020				
	B17.5	January, 2021				

B17.6	February, 2021					
B17.7	March, 2021					
B17.8	April, 2021					
B17.9	May, 2021					
B17.10	June, 2021					
B17.11	July, 2021					
B17.12	August, 2021					

B15	Code of M&E Field Team	
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B16. Name of Enumerator _____ **Signature with date**

B17. Countersigned by concerned FTI: Name _____

Signature with date _____

