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Jawalakhel, Lalitpur



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Irrigation Management Transfer



THIRD TRIMESTER REPORT (March 2016 to May 2016)

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Submitted by:



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List of Acronyms

ADB	: Asian Development Bank
AF	: Additional Funds /Additional Financing(World Bank loan funds made available in early 2014)
AMIS	: Agency-Managed Irrigation System
AO	: Association Organizer (Social Worker)
BSC	: Branch Secondary Canal
CCC	: Central Coordination Committee
DADO	: District Agriculture Development Office
DDC	: District Development Committee
DDG	: Deputy Director General
DG	: Director General
DIO	: District Irrigation Office
DOA	: Department of Agriculture
DOI	: Department of Irrigation
EIA	: Environmental Impact Assessment
EOP	: End of Project
ESI	: Essential Structure Improvements
FMIS	: Farmer Managed Irrigation System
GON	: Government of Nepal
Ha	: Hectare
IDA	: International Development Association
IMD	: Irrigation Management Division
IMT	: Irrigation Management Transfer
ISE	: Initial Social Examination
ISEA	: Integrated Social and Environment Assessment
ISF	: Irrigation Service Fee
IWRMP	: Irrigation and Water Resources Management Project
KIS	: Kankai Irrigation System
KIMD	: Kankai Irrigation Management Division
M&E	: Monitoring and Evaluation
MIS	: Mahakali Irrigation System (also "Management Information System")
MIMD	: Mahakali Irrigation Management Division
MOAD	: Ministry of Agricultural Development
MOF	: Ministry of Finance
MSC	: Main Secondary Canal
MTR	: Mid Term Review
NBD	: National Bidding Document
NIS	: Narayani Irrigation System
NISP	: Nepal Irrigation Sector Project
NSC	: National Steering Committee
NWP	: National Water Plan
NWRS	: Nepal Water Resource Strategy
OFWM	: On-Farm Water Management
O&M	: Operation and Maintenance
OPD	: Office of the Project Director
PAD	: Project Appraisal Document
PDO	: Project Development Objective
PIP	: Project Implementation Plan
PIC	: Project Implementation Committee
PICC	: Project Implementation and Coordination Committee

PIM	: Project Implementation Manual
PIU	: Project Implementation Unit
PM	: Project Manager
PMU	: Project Management Unit
PPT	: Project Preparation Team
PSC	: Project Steering Committee
RAC	: Regional Appraisal Committee
RAAC	: Regional Appraisal and Approval Committee
RAD	: Regional Agriculture Director/Directorate
RAP	: Resettlement Action Plan
RCC	: Regional Coordination Committee
RDs	: Regional Directors
RD	: Regional Directorate of Agriculture
RFP	: Request for Proposal
RFP	: Resettlement Policy Framework
RID	: Regional Irrigation Director/Directorate
RPF	: Resettlement Policy Framework
SAC	: Sub-project Appraisal Committee
SBD	: Standard Bidding Document
SC	: Secondary Canal
SCC	: Scheme Coordination Committee
SEA	: Social and Environment Assessment
SEMP	: Social and Environmental Management Plan
SIS	: Sitagunj Irrigation System (also known as "S9", a sub-system within SMIS)
SMIS	: Sunsari Morang Irrigation System
SMU	: Sub-project Management Unit
SSC	: Sub-Secondary Canal
STW	: Shallow Tube Well
TA	: Technical Assistance
TA B	: Technical Assistance of IWRMP Component B
USAID	: United States Agency for International Development
VC	: Vice Chairman
VDC	: Village Development Committee
VCDF	: Vulnerable Communities Development Framework
WB	: World Bank
WRIC	: Water Resources Information Centre
WME	: Water Management Expert
WUA	: Water Users Association
WUAF	: Water Users Associations Federation
WUCC	: Water Users Coordination Committee

1 IWRMP Project Overview

The Irrigation and Water Resource Management Project (IWRMP) is financed by the World Bank (WB), the Government of Nepal (GON), and the involved Water User Associations (WUAs), and is being executed by Department of Irrigation (DOI). The IWRMP comprises four Components, A through D:

- A – Rehabilitation and Modernization of Irrigation Infrastructure
- B – Irrigation Management Transfer Reform
- C – Institutional and Policy Support for Improved Water Management
- D – Integrated Crop Water Management

This progress report confines itself to details relating to Component B, being implemented by the Department of Irrigation (DOI) under IWRMP.

The overall objective of Component B is to improve irrigation service performance and service delivery to selected irrigation systems in the Terai through the completion and consolidation of Irrigation Management Transfer (IMT) to the relevant Water Users Association (WUAs). The component is designed to address problems exhibited in large public irrigation schemes (Agency Managed irrigation Systems or AMIS) of below capacity performance, poor O&M, low cost recovery, and inadequate maintenance funds.

Component B is presently working with seven legally empowered WUAs which are (or are intended to be) responsible for the operation and maintenance of seven existing sub-systems within four (4) AMISs. Among them, four of the sub-systems (Kankai Irrigation System, Sitagunj Distributary of Sunsari Morang Irrigation System, Block-8 of Narayani Irrigation System and Phase-I of Mahakali irrigation system) were initiated in the first phase of the IWRMP and are at the stage of almost completion of the infrastructure development component while the other components like institutional development and water management will be carried over the IWRMP-AF period or till June 2018. These four sub-systems are located within the four AMIS of Kankai, Sunsari Morang, Narayani, and Mahakali Irrigation system. These subsystems cover about 23,100 ha of the irrigation command area. Component B is also initiating irrigation management transfer activities at three additional sub-project sites: Ramgunj, SMIS: Block-2, NIS and Stage-II, MIS subsystems. These sub-systems will cover a total area of 16,345 ha. Agreement signing activities have been completed in all the three systems. Table 1 provides a list of the sub-systems currently included under Component-B and their related command areas.

Table 1.1: Component B Irrigation Systems/sub-systems

Irrigation System	Schemes/sub-systems	Sub-system Command Area (Ha)	No. of WUA
Ongoing Work Sites (Original Scope)			
Kankai (KIS) (total system 7,000 ha)	1. Entire System	7,000	1
Sunsari Morang (SMIS) (total system 62,000 ha)	2. Sitagunj SC	8,000	1
Narayani (NIS) (total system 37,000 ha)	3. Block 8	3,000	1
Mahakali (MIS) (total system 10,800 ha)	4. Stage I	5,100	1
Active Sites Sub-Total	4 Sub-systems	23,100	4
New Work Sites (Additional Financing)			
Sunsari Morang (SMIS) (total system 62,000 ha)	1. Ramgunj SC	6845	1
Narayani (NIS) (total system 37,000 ha)	2. Block 2	3,000	1
Mahakali (MIS) (total system 10,800 ha)	3. Stage II	6500	1
New Sites (Additional Financing) Sub-Total	3 Sub-systems	16345	3
Total Sub-system Sites	7 Sub-systems	39,600	7

The activities of Component B include¹:

- (a) Completion/consolidation of Management Transfer Plan including streamlining and strengthening of WUAs;
- (b) Essential structural improvements;
- (c) Repair, upgrading, or procurement of buildings, information systems, transportation, and maintenance and information technology equipment;
- (d) Capacity building of WUAs and Department of Irrigation (DOI).

The expected primary outputs of Component B are²:

- 1. Efficient and equitable service delivery by financially and institutionally sustainable WUAs;
- 2. Improved physical performance of the irrigation schemes;
- 3. Reliable bulk water delivery by the DOI, according to the IMT Agreement with the respective WUAs.

¹ As per the IDA Mission report (18 – 24 September, 2009).

² As per the IDA Mission report (18 – 24 September, 2009).

2 Institutional and Implementation Arrangement

The overall responsibilities for implementation management of the IWRMP rest with DOI, with guidance and assistance from several committees and teams. For this purpose the GON, in executing the Financial Agreement³, created several committees to support the implementation of IWRMP. The DOI created the OPD, within the DOI central office, which is fully staffed with the needed manpower and professionals. OPD is responsible for the overall coordination of the project with other implementing agencies.

The transfer of management to the WUAs means turning over governance, management, operations, and maintenance responsibilities of the relevant portions of the irrigation systems. The DOI was originally responsible continue to operate and maintain the head works, desilting basins and, in most cases, main canals and head regulators. However, due to limited budget flow for rehabilitation of the system, the funds were later released from the IDA part. The WUAs will operate and maintain the transferred portions of the systems and related assets as per the legal transfer agreement guidelines.

Other institutions and groups directing and/or otherwise involved in the implementation or management of IWRMP are:

- a) **Project Steering Committee (PSC)** represented by, but not limited to, the Ministry of Irrigation, Ministry of Agriculture and Cooperatives, Ministry of Finance, National Planning Commission, Water and Energy Commission Secretariat, and the Federation of Water Users Associations of Nepal (FWUA).
- b) **Project Implementation and Coordination Committee (PICC)** conformed by, but not limited to, representatives of DOI and DOA.
- c) **High Level Policy Steering Committee (HLPSC)** including without limitation, representatives of NPC MOF, MOWR and WECS and other senior officials of key stakeholder ministries and agencies.
- d) **National Vigilance Centre:** Independent technical audit of the implementation of the project.
- e) **WECS Project Management Team:** The Project Management Team of WECS to be responsible for planning, implementing, coordinating, supervising, monitoring and evaluating activities to be carried out under component C of the project.
- f) **DOA Project Management Team:** Responsible for, among other activities, planning, implementing, coordinating, supervising monitoring and evaluating activities to be carried out under Component D.
- g) **Water Users Associations (WUA):** Farmer organizations with the aim of irrigation water management organized and/or assisted to support the planning and implementation of the IWRMP Component B sub-projects.

³ Financial Agreement, (Irrigation and Water Resources Management Project) between NEPAL and International Development Association, January 31, 2008. Grant Number HP338-NEP.

3 Progress Status Narrative

A. Subsystems: Original Scope

3.1 Progress on WUA Development

Outcome: Institutionally and financially sustainable WUA. Indicators: 1- Holding regular meetings. 2- Collecting fees for adequate O&M. 3- Maintain accounts/cash registers

Output 1: Established and effectively functioning WUA

Output 2: Targeted resources generated and mobilized by WUA

Summary of WUA development status in all the subsystems under original scope

Institutional development activities further required in original scope sub-systems have been included in the additional financing budget. Activities will be more intensified by OPD to complete all the remaining and committed WUA development requirements. The overall WUA development status is shown in the following table.

Table 3.1: Summary of WUA Development Activity Progress Status

Key activities	Original Scope IMT Sub projects			
	KIS	SIS/S, MIS	Block-8, NIS	Phase-1, MIS
1. WUA office set up with initial records, formats, constitution and rules: financial and administration, election, canal operation and maintenance	All completed except the canal operation and maintenance rules	All completed except Branch canal office set up and the canal operation and maintenance rules Planned for AF period	Not yet established except Main committee Will be planned for AF period	All completed except the canal operation and maintenance rules Planned for AF period
2. Initial capacity Development: Administrative and financial, registers and records, users awareness, work division, communication	Completed	Completed except Work division and communication system Planned for AF period	Not yet developed Will be planned for AF period	Completed
3. Resource management : ISF, membership, and others	In progress ISF > 50% of the target (Rs 4.3 M), A-7000 ha	In slow progress ISF < of the target (Rs 5.6 M), A-7800 ha	No progress ISF < of the target (Rs 2.55M), A-2768	In slow progress (ISF < of the target (Rs 3.14 M), A-5100 ha)
4. Advance capacity development: canal operation, maintenance, planning, monitoring and evaluation capacity, TOT, leadership and good governance, conflict management	All completed except COP training	Not completed yet Planned for AF period COP training, monitoring and evaluation, leadership and good governance, conflict management	Not completed yet Will be planned for AF period COP training, monitoring and evaluation, leadership and good governance, conflict management	All completed

Kankai Irrigation System (KIS)

Progress for the period March 2016 to May 2016

Two main events: Monitoring and Evaluation capacity development of main committee WUA members and observation tour of WUA members were launched. During April 2-3, 2016 a total 25 male WUA members participated in M and E training.

A seven days observation tour to different project sites of farmer managed irrigation schemes like Hyangja Irrigation System, Kaski; Ghansi Kuwa Irrigation System, Tanhu, Lumle Agriculture Farm, Kaski, Pancha Kanya Irrigation System, Chiwan was organized by the project with an aim to learn the sustainability issues of farmer management in irrigation schemes. A total of 32 WUA members including 5 females joined the field trip during May 15 -21, 2016.

Cumulative progress as of February 2016

During December 22-25, 2015, a three day good governance and leadership development training was given to the chairpersons of Branch Main committee for improving their day to day administration and financial management affairs. A total of 25 participants including 2 females and 23 males developed their knowledge on the principles and pillars of good governance (transparency, rules of law, accountability, participation, equity, predictability & decentralization and leadership skills (planning, motivation, communication and decision making)

Similarly, during December 26-29 2015, three day conflict management training was given to all Vice Chairpersons of Branch and Main Committee. The trained vice-chairpersons demonstrated their skill of conflict management by settling a on- going dispute related to a tree grown on the bank of canal by a farmer. A total of 25 vice-chairperson including 4 females and 21 males acquired knowledge on types of water conflict, conflict settlement process, effect of conflict in WUA and identification of conflict.

ISF collected as of February 2016 amounts to Rs 500000 by KIS WUA

One day workshop on Wednesday, Nov 25, 2015 was organized by OPD and SMU/KIMD in WUA office, Panchagachni. The purpose of the workshop was to discuss and finalize three years draft programme of KIS.

WUA executives, central members of WUA and OPD Staff: Mr. Chetman Budthapa, Senior Sociologist, Mr. Tikaram Baral, SDE and Mrs Jigyasha Rai, engineer along with RRS Neupane, DTL, TA-B were present in the workshop.

Workshop Outputs

Three years (2015-2018 June) work plan and annual Work plan have been developed for the capacity development of WUAs of KIS.

Advance capacity development

Several packages of trainings as written in Table-3 above on advance knowledge development on office administration financial management, construction management, leadership and good governance skill development, conflict management skill development, TOT, program planning and monitoring & evaluation have been completed in KIS WUA. These learned skill and knowledge are being utilized by WUA members in performing their day to day function.

During May 17- June 4, 2015 Branch and tertiary committee members were trained on basic accounts and record keeping. A total of 240 participants including females 58 and males 182 attended the training.

During April 2015 TOT trainers held two packages of leadership development training for WUA branch and tertiary Committees. Altogether 61 participants consisting 14 females and 47 males members attended in this training

Resource management

Membership collection and other revenue generation activities have been started and are in progress in KIS

ISF collection

The ISF collection mechanism and collection rate is highly encouraging in KIS and seems that the target amount of ISF required for regular O&M as prescribed in the Asset Management Plan could be achieved within the project completion time (AF completion time). WUA of KIS has collected ISF-NRs 728000.0 in F/Y 2070/071 and NRs 1152950.0 in F/Y 2071/72 and **NRs 1342000.0** during this reporting period for this F/Y 2072/73 Also, from other sources WUA has collected total amount of NRs. 2238582.66 in F/Y 2070/071 and Rs. 1870019.00 in F/Y 2071/72 and **Rs 144900 (member ship fee) in this F/y 2072/73**

through tractor and excavator leasing, service road tax, hall hiring, photocopy servicing, membership fee, entry fee, using thresher, training, internet servicing to make the WUA financially sustainable. Collection of financial resources exploring different sources of income in KIS is most appreciable and is worth replicable in other WUAs through trainings, exposure visit and use of the key farmers/knowledgeable person/WUA members as a resource person in the training of other sub-system under IWRMP. Details of ISF collection is given in the following table.

Table 3.2: Past Three Years Trend of ISF Collection Status

Fiscal Year	Targeted ISF Collection Rate / Year	Present ISF Rate / Year (Rs)	Targeted ISF Collection(Rs) (Annual)	Collected ISF (Rs) (Annual)	Progress %	Remarks
070/071 (013/014)	615//Ha/year	300/Crop/Ha	800,000.00	7,28,000.00	91.00	Target is reduced due to damage of Dhyangri aqueduct and farmers of branch 14-21 are not getting water from the canal system
071/072 (014/015)	615//Ha/year	300/Crop/Ha	1,000,000.00	1152950.0	38.00	Target is reduced due to damage of Dhyangri aqueduct and farmers of branch 14-21 are not getting water from the canal system
072/073 (015/016)	615//Ha/year	300/Crop/Ha	3,000,000.00	1342000.0	31	(May 2016)

Note: for detail refer Annex-2A

Initial capacity development

Adequate initial capacity development trainings for WUA were provided to to start the initials functions of WUA at Main, Branch and Tertiary canal levels. All proposed targets under these items have been completed including internal communication and work division among the members. More than Ten (10) events of such training programs were completed in KIS. As a result of this initial capacity development efforts WUA in MCC and in 15 BCC have started administration and financial management system satisfactorily.

Office establishment and operation

- WUA main committee is well established in a new two story building in Panchgachhi
- Sixteen Branch Canal offices are established in personnel house of Chairpersons and secretaries and also in the cemented houses provided by the project office. According to the WUA secretary the remaining six offices will be well functional after the construction of the tertiary canal construction in S16 to S21

The overall status of WUA capacity development trainings are given below. Almost all of the required trainings for capacity development of WUA have been completed as listed in the following table..

Table 3.3: Summary of WUA/DOI Capacity Development Trainings

Subjects	Target Persons	Target Nos	Progress	Progress %	Trained		Results
					Male	Female	
1. WUA office Establishment							
Main committee		1	1	100.00			Main committee and 14 BCC are operative
Branch canal committees		22	16 (0-15)	72			
Awareness/Orientation on IMT Programs	MC,BC-Cp,Se,Tr	NA	1550		1074	476	Understood IWRMP program and contributed to IMTA
2. Initial capacity development trainings							
Administration	MC,BC-CP,Sec	90	150	166.67	150		Office works started
Financial Management	TC-CP, Sec, MC & BC-CP,	380	257	67.63	228	29	BCs started ISF collection works
Communication & work division	Within WUA	-	Complete Established				Completed during IDS TA-visit in December 2015
3. Advance Capacity Development trainings							
Financial Management	BC & TC Secretary	230	240	104.34	182	58	Supported in WUA financial management activities
Administration	MC, TC-CP, VCP, Sec	66	54	81.82	50	04	Good administration concept were applied in administration
Construction Management	BC-CMC members	132	144	109.10	127	17	CMC was utilized for construction quality control
Monitoring & Evaluation	MC, BC-VC,Sec, Farmers	50 25	60 25	120.00 100	60 25	0 0	Monitored trainings, canal maintenance, construction and canal operation activities
Training of trainers	WUA active members	24	24	100.00	20	04	Conducted 29 pkgs of trainings on leadership, field irrigation schedule, tertiary repair, ISF collection awareness
Leadership and Goodgovernance	MC-4,BC, TC-CP,	207 25	151 25	72.95 100	125 23	26 2	Chairpersons of MC& BCs lead ISF awareness, office operation, labor contribution mobilization
Program Planning	MC-All members	31	31	100.00	26	05	Prepared WUA annual plan and applied it
Conflict Management	MC, BC-VCP	25	25	100	21	4	Vice chairpersons started managing the water
Observation tour	MC, BC, WUA	32	32	100	27	5	
4.Resource Management							
ISF /Water Management	TC-members	540	405	75.00	384	21	Contributed to ISF collection & water mgt.
ISF administration process	TC -CP, Sec	360	258	71.67	215	43	Contributed to ISF collection

IMT program orientation and awareness

Adequate orientation trainings have been provided to WUA and farmers during consultation and other occasional period as targets. As a result of all the pre agreement activity inputs to WUA, first IMT agreement between DOI and KIS WUA was done on December 2009

Studies/Evaluation/Impacts

Local Resource Persons (LRPs) developed under TOT program are being utilized by WUA extensively. The LRPs conducted 29 packages of awareness trainings on leadership development, field irrigation schedule, and tertiary repair and ISF collection.

Performance evaluation of ToT training conducted by WUA Local Resource Persons has been completed in KIS and SMIS in order to access for the further support needs. Parcellary map orientation training is completed in KIS

Narayani Irrigation System, Block-8

Progress for the period March 2016 to May 2016

No changes were reported during this period

Cumulative progress as of February 2016

On February 9, 2016 an orientation workshop was organized in SIMARA by OPD in order to update the three years program and evaluate the existing performance status of WUA. All together 29 participants including 22 WUA members (two females), 7 SMU members including Division Chief, 3 OPD staff (Shashi Bahadur Bisht, PD; Tika Ram Baral, SDE and Jigyasha Rai, engineer) and 3 TA team members (DTL, SWMS, IDS) were present at the workshop.

The critical issues observed in relation to WUA were as follows:

- The existing WUA is going to expire on Baisakh 20.
- The existing WUA has not established its branch level offices yet and, also, has not taken office support packages from the project office.
- There is no progress in ISF collection amount for the past three years

Considering the above issues the immediate actions that WUA required to follow and achieve were noted as outputs of the workshop were as given below:

- The election procedure of WUA of NIS block 8 will be started from 20 Baisakh, 2072 jointly by NIMD and WUA. TA team will assist in election procedure.
- The under construction office building of WUA coordination committee will be completed by the end of Chaitra, 2072. NIMD will take initiation to complete the WUA office building.
- WUA of NIS Block 8 will take initiation to select the places for establishment of WUA branch offices by the end of 05 Falgun, 2072. After establishment of WUA offices NIMD will support to provide furniture and stationeries to the established WUA offices.
- The ongoing construction works of structures of the canal systems of NIS Block 8 will be completed by NIMD by the end of Asadh, 2072
- The SMU staffs and TA team will jointly monitor the established and operation of WUA offices of NIS Block 8
- NIMD will form a team of technicians from NIMD and TA to observe all the physical structures of canal systems of NIS Block 8. The team will analyze the working efficiency of structures and categorized them. The team will also identify the existing and completed tertiary and inlets and will prepare a report including all above mentioned items and submit to NIMD and IWRMP/OPD

Advance capacity development

MC, BC and Tc (ad hoc) chairpersons and secretaries gained knowledge on office administration. This acquired knowledge of administration will be used as soon as Branch offices are established. Twenty four (24) Local Resource Persons have been developed in NIS WUA. These local resource persons were used in user's awareness generation program on ISF collection.

No other trainings on advance knowledge development on financial management, construction management, leadership and good governance skill development, conflict management skill development, program planning and monitoring & evaluation have been completed in NIS WUA.

Resource management

Membership collection and other revenue generation have not been continued in NIS

ISF collection

The ISF collection process has been just initiated in NIS. However the process is not effective in NIS Block-8, despite intensified WUA strengthening activities in the system. Both ISF rate and amount did not change at all as shown in the following table.

Table 3.4: Past Three Years Trend of ISF Collection Status

Fiscal Year	Targeted ISF Collection Rate / Year	Present ISF Rate / Year (Rs)	Targeted ISF Collection(Rs) (Annual)	Collected ISF (Rs) (Annual)	Progress %	Remarks
070/071 (013/014)	922/Ha	210/Ha	NA	NA		ISF collection has been initiated but not documented according to WUA
071/072 (014/015)	922/Ha	210/Ha	200,000.00	426,00.00	21.30	ISF collection has been initiated but not documented
072/073 (015/016)	922/Ha	210/Ha	NA	NA		No collection May 2016

Initial capacity development

Adequate initial capacity development trainings for branch canal committees are still to be provided as soon as their branch canal offices are established.

During April 1 -16, 2015 an awareness creation training on organization, resource generation and irrigation system management was conducted for WUA branch and tertiary committee members. Altogether 240 participants including 61 females and 179 male participated in the training

Office establishment and operation

- WUA main committee office is established in Materawa temporarily and a new permanent building is under construction in Jitpur Gamaria. But the office is not effectively operated.
- Nine Branch Canal offices are to be established and made fully functional by WUA main committee.

IMT program orientation and awareness

Adequate IMT orientation trainings have been provided to WUA and farmers during consultation and other occasional period according as targets. As a result of all these pre agreement activity inputs to WUA, IMT agreement between DOI and NIS WUA was done on May 2011.

Table 3.5: Summary of WUA/DOI WUA Capacity Development Trainings

Subjects	Target Persons	Target NOs	Progress	Progress %	Trained		Results
					Male	Female	
1.WUA office Establishment							
Main canal committee office		1	1	100.00			Main committee is established but semi- operative
Branch canal committee offices		9	0	0			Offices are not established
1.Awareness/Orientation on IMT, Programs orientation of AF provisions	BC, TC-members WUA Block committee	781 22	921 22	117 100	20	2	Understood IWRMP program and contributed to IMTA
3.Initial capacity development							

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Administration	MC,BC-members and	304	238	78.30	152	86	Capacity not utilized
Financial management	BC & TC- SE	-	-				
Communication & work division	In WUA						
4.Advance Capacity							
Financial Management	BC & TC- SE	-	-				
Administration	MC,BC-CP,SE	-	-				
Construction Management	BC-CMC members						
Monitoring &Evaluation	MC, BC- VC, Sec, Lead						
Training Of Trainers	WUA active members	24	24	100.00	20	04	Conducted 16 packages of trainings on
Leadership Development	MC-4,BC, TC-CP,	-	-				
Program Planning	MC-All members	-	-				
Conflict Management	MC, BC-VCP	-	-				
5.Resource Management							
ISF/Water mgt.-awareness	BC, TC-members	700	240	34.30	179	61	Not contributed to ISF collection because of lack of
ISF Administration process	BC, TC-members						

Studies/Evaluation/Impacts

Local Resource Persons (LRPs) developed under TOT program were used by WUA extensively. The LRPs conducted 16 packages of awareness trainings on leadership development, field irrigation schedule, and tertiary repair and ISF collection.

Sitagunj, Sunsari Morang Irrigation Project**Progress for the period March 2016 to May 2016**

No changes during this period

Cumulative progress as of February 2016

On day workshop at Aurabandi WUA office was held in order to develop a line of action for the future institutional development support to SIS WUA and finalize the three years work plan in participation with WUA Block committee and the SMU staff. The workshop was attended by Mr. Tika Ram Baral from OPD, Mr. Laxman Shing, SDE and engineers from SMIS, Mr. Tapan das, Chairperson of WUA and five other members and TA-B team including DTL.

The critical issues that hindered direct working with WUA and further program discussion with WUA were observed as follows:

- The existing WUA tenure has been expired already and hence the SMU chief has taken stand that the existing WUA need to go for election otherwise disqualified for carry on official works with it.
- Finally the WUA seemed to be prepared for election but with many excuses about completion of election

Advance capacity development

Some packages of planned advance capacity development trainings like administration, financial management, construction management and LRP (TOT) development have been provided to WUA members to improve the day to day office management tasks of WUCC and BCC. Particularly the office management tasks of WUA are being improved gradually in WUCC. But other capacity development trainings are yet to be completed in SIS/SMLs. Remaining capacity strengthening activities like

leadership development, program planning and conflict management have to be included in the work plan to be executed during AF period.

Resource management

Membership collection and other revenue generation activities have not been satisfactorily performed in SIS by the BCC which need to be revisited and activated during AF period.

ISF collection

Although the WUA is making continuous effort in increasing the rate and amount of ISF collection, the actual amount collected is far below than the target amount as shown in the following table.

Table 3.6: Past Three Years Trend of ISF Collection Status

Fiscal Year	Targeted ISF Collection Rate / Year	Present ISF Rate / Year (Rs)	Targeted ISF Collection(Rs) (Annual)	Collected ISF (Rs) (Annual)	Progress %	Remarks
070/071 (013/014)	1200/Ha	300/Ha	2,000,000.00	6,58,000.00	32.90	ISF collection is increased due to completion of construction of aqueduct at Thalaha Khola
071/072 (014/015)	1200/Ha	300/Ha	2000000.00	33,000.00	1.65	ISF collection target is decreased due to poor management of WUA
072/073 (015/016)	1200/Ha	450/Ha	3600000.00	NA		No collection (May 2016)

Initial capacity development

Adequate initial capacity development trainings for branch canal committees have been provided..

Office establishment and operation

- WUCC main committee office is established at Aurabandi in a new building. This main office of WUCC is fully operational.
- Thirteen Branch Canal Offices are informally established in the houses of Chairpersons or Secretaries and partially functional.

IMT Program Orientation and Awareness:-

Adequate orientation trainings have been provided to WUA and farmers during consolation and other occasional period as targets. As a result of these pre- agreement activity inputs to WUA, IMT agreement between DOI and SIS/ SMIS WUA was done on November 2010.

Studies/Evaluation/Impacts

Local Resource Persons (LRPs) developed under TOT program were used by WUA extensively. The LRPs conducted 21 packages of awareness trainings on ISF collection.

Table 3.7: Summary of WUA/DOI WUA Capacity Development Trainings

Subjects	Target PersonSMU	Target Nos	Progress	Progress %	Trained		Results
					Male	Female	
1. WUA office Establishment							
SIS – canal WUCC office		01	01	100.00			Main office is well established and operated
Branch canal office		13	13	100.00			Established in CP house
.Awareness/Orientation on IMT, Programs • Discussion Workshop	WUCC-Farmers WUCC	2700 19	2412 5	89 20	-	-	Contributed to agreement doc. Development Election will beheld
2. WUA Initial capacity development Trainings							
Administration	BC, TC-CP	285	180	63.15	132	48	Office works are regular In WUCC
Financial Management	WUCC,BC-CP, Sec	30	35	116.67		35	BC started ISF record keeping
Communication & work division		-	-				
3.WUA Advance Capacity Development Trainings							
Financial Management	SMU,BC-members	40	40	100.00	28	12	BC started keeping financial records
Administration	WUCC,BCC-CP,Se	-	-				
Construction Management (CM)	BC, WC-CMC	101	103	102.00	69	34	CMC was utilized for construction quality control
Monitoring Evaluation	WUCC,BCC	-	-				
Training Of Trainers	WUA LRPs	25	25	100.00	20	05	Conducted 21 pkgs of trainings for awareness creation on ISF collection, resource mobilization and water management
Leadership Development	WUCC-4,BC, WC-	-	-				
Program Planning	WUCC-All members	150-	150	100	-	150	
Conflict Management	WUCC, BC-VCP						
4.Resource Management WUA Capacity Development trainings							
ISF/Water Management, Awareness	BC, WC-members	NA	790		587	203	Contributed to ISF collection
ISF Administration process	BC,WC-CP,Sec	575	118	20.52	102		Contributed to ISF collection

Mahakali Irrigation System, Phase-1

Progress for the period March 2016 to May 2016

During April 27 to 19, 2016, six (6) events of record keeping training was conducted to tertiary level committees under Block – B and D. A total of 447 tertiary committee members including 169 females were present in the training. The main purpose of the training was to impart skill and knowledge on how to keep information about canal inventory, farmers' land records etc.

In order to improve WUA management incorporating principles of good governance and effective leadership a two-days training on leadership development and good governance application was given to WUA members (WURC and Block Committee). A total of 35 members including 12 females participated in the training.

After completing COP of main canal operation a total of 219 participants including Gate operators, SMU engineers and chairpersons of Tertiary Canal Committees were trained on the process of water distribution and main canal operation.

Cumulative progress as of February 2016

Orientation on preparation of tertiary level inventory

A one day three events of TC level inventory keeping training was conducted on December for TC level Chairpersons and members in Block-C, E and A- in order to fill the given formats within a fixed period so that a complete updated information of the farmers become available to the Block Committee which later can use them for ISF collection and labor mobilization activities. The progress of this quarter is as shown in the following table.

S.NO	Block	Events	Date	Males	Females	Total
1	A	3	12/2015	76	35	111
2	C	3	16/1/2016	76	33	109
3	E	1	11/2/2016	20	10	30
		7		172	78	250

Work plan finalization workshop

On day workshop was organized by OPD to finalize the draft proposed work plan for Phase-I MIS. WUA executive members of Regional Committee, Phase-1, MIS including Chairpersons and Secretary of all 5-block committee participated in the workshop. From Sub-project, Division Chief Mr. Ajay Adhikari, along with two engineers and one AO were present. Mr. Tika Ram Baral SDE/IWRMP and DTL-TAB participated from central OPD Office.

Workshop Outputs

Detail activity plan was prepared with WUA participation for three years (2015-2018 June)

Advance capacity development

Some packages of refresher trainings for advance knowledge and capacity development of WUA on office administration financial management need to be provided, where as construction management and TOT trainings are completed for targets. Some trainings like program planning, monitoring & evaluation, leadership development and conflict management have to be provided if demanded or tasks driven. The Knowledge and skills acquired during trainings are being utilized by WUA members in performing their day to day function.

Membership fee collection and other revenue generation have been started in MIS in a slow process.

ISF collection

ISF collected in this period as reported by WUA is Rs 222348.00

The ISF collection mechanism and collection rate is highly encouraging in MIS and seems that the target amount of ISF required for regular O&M as prescribed in the Asset Management Plan could be achieved within the project completion time (AF completion time). Although the WUA is making continuous effort in increasing the rate and amount of ISF collection, the actual amount collected is far below than the target amount.

Table 3.8: Past Three Years Trend of ISF Collection Status

Fiscal Year	Targeted ISF Collection Rate / Year	Present ISF Rate / Year (Rs)	Targeted ISF Collection(Rs) (Annual)	Collected ISF (Rs) (Annual)	Progress %	Remarks
070/071 (013/014)	616/Ha	300/Ha	1,000,000.00	6,44,261.00	64.43	ISF collection target could not be met due to ESI works
071/072 (014/015)	616/Ha	300/Ha	1,000,000.00	545,899.00	54.600	ISF collection target could not be met due to weak BCC management
072/073 (015/016)	616/Ha	450/Ha	1,200,000.00	430223	35%	May 2016

Initial capacity development

Adequate initial trainings for developing the initial financial management capacity of WUA were provided to start the initial functions of WUA at Regional and Block level WUA committee. All proposed targets under these items have been completed except some administration training. As a result of this initial capacity development effort, Regional and Block committee have started administration and financial management system satisfactorily.

Office establishment and operation

- One Regional committee office is established within the office compound of MIS. It is well functional.
- Five Block Committees are well established in the small buildings provided by the project offices in different location and are all functional.

IMT program orientation and awareness

Adequate orientation trainings were provided to WUA and farmers during consultation and other occasional period. As a result of these pre agreement activity inputs to WUA, IMT agreement between DOI and MIS WUA was done on September 2010. The overall progress of the trainings is shown in the following table.

Table 3.9: Summary of WUA/DOI Capacity Development Trainings

Subjects	Target Persons	Target Nos	Progress	Progress %	Trained		Results
					Male	Female	
1.WUA office Establishment							
Main canal office		01	01	100.00			Main and block offices are well established and operational
Block offices		05	05	100.00			
.Awareness/Orientation on IMT , Programs	BC-members	Undefined	518	-	368	150	Contributed to agreement doc. Development
3.Initial capacity development							
Administration	BC, TC-CP	-	-				
Financial management	BC-members	29	29	100.00	21	08	BC started ISF record keeping
Communication & work division		-	-				Needs more exercise

4.Advance Capacity							
Financial Mgt	SMU,BC-members						Needs exercise
Administration	WUCC,BCC-CP,Se	-	-				Needs exercise
Construction Management (CM)	Block-CMC	35	35	100.00	28	07	CMC was utilized for construction quality control
Monitoring & Evaluation	WUCC,BCC						Exercise needed
Training Of Trainers	WUA LRPs	25	25	100.00	14	11	Conducted 20 pkgs of awareness trainings on ISF collection, and water management.
Leadership Development	WUCC-4,BC, WC-CP	-	-				
Program Planning	WUCC-All members	-	-				
Conflict Management	WUCC, BC-VCP	-	-				
Basic Computer	WUA Members	10	10	100	6	4	1 person was employed by WUA
5.Resource Management							
ISF awareness	BC, TC-members	Undefined	576	-	372	204	Contributed to ISF collection & water mgt.
ISF Administration process	BC,WC-CP, Sec	-	-				

For total events and participants training summary refer Annex- 1

3.2 Progress on Water Management

Outcome: Improved canal operation plan adoption by DOI and WUA.

Indicators: 1-Delivery points receiving proportionate share of water. 2- Adequate DOI and WUA O&M. 3-Expenditures according to AMPs

Output : 1. Measured controlled and scheduled seasonal bulk water delivery by DOI to all WUA Branch Committee. 2. Standard and qualitative irrigation service delivery to users by WUA

Outcome: Improved maintenance practice adoption

Output : Approved asset management plan

Summary of water management activity progress

Most of the water management activities have been planned under Additional Financing project duration. The overall progress of the water management activities in all the subprojects are shown in the following table

Table 3.10: Summary of the water management activities planned for AF period

Key Activities	KIS	SIS/SMIS	Block-8, NIS	Phase-1, MIS
1. Main Canal Operation Plan	completed (T-1)	completed (T-1)	Planned for AF Period (T-1)	completed (T-1)
2. Branch Canal Operation Plan	Planned for AF period (T-16/22)	Planned for AF Period T-13)	Planned for AF Period (T-6)	Planned for AF Period (T-11)
3. AMP at Main Canal	Planned for AF Period (T-1)	Planned for AF Period T-1	Planned for AF Period T-1	Planned for AF Period T-1)
4. AMP at Branch Canal	Planned for AF Period ((T-16/22)	Planned for AF Period (T-13)	Planned for AF Period (T-1)	Planned for AF Period (T-11)
5. Calibration at MC	Planned for AF Period(T-19 /14)	Planned for AF Period (T-13/13)	Planned for AF Period(T-7/0)	Planned for AF Period(T-9/9)
6. COP/AMP trained persons in WUA	Planned for AF Period(T-x)	Planned for AF Period(T-x)	Planned for AF Period(T-x)	Planned for AF Period(T-x)

Kankai Irrigation System (KIS)

Progress for the period March 2016 to May 2016

COP for main canal is complete. It has been applied for spring paddy; irrigation water has been delivered equitably through Bo-B12. Irrigation schedule is applied. Flow is recorded by Dhalpas.

Cumulative progress as of February 2016

Three years work plan and annual work plan have been developed for the water management activity implementation. One-day workshop was conducted in the WUA office at Panchagachhi, Jhapa for the similar purpose and outcome of the workshop on November 25, 2015. The workshop participants were WUA main committee members, MR. Chetman Budthapa, Senior Sociologist/IWRMP; Mr. Tika Ram Baral, SDE/IWRMP; Mr. Birendra Yadav, SDE/KIMD; Mr. Mandal Engineer; Gopal Poudel, Association Organizer and Mr. R.R.S. Neupane, DTL, TA-B following the same process as in MIS.

Mr. Birendra Yadav, SDE/KIMD presented the draft three-year work plan and Mr. R.R.S. Neupane, DTL/TA-B facilitated and modulated the discussion.

No changes in other activities during this period

Initial capacity development (Knowledge and skills)

Completed as targets

A three day capacity building training related to on-farm and off-farm water management was conducted from January 11-13, 2013 for WUA main committee members of KIS. Thirty participants including 4 females participated, acquiring knowledge and skills on water controlling structures, water distribution process, methods of canal operation and water measurement. A similar training was also conducted for members of KIS branch committees on February 6-8, 2013. Twenty two (22) branch committee chairpersons, including one female member, attended the training.

Advance capacity development

Parcellary map preparation

Updating and validation of parcellary map prepared is in progress. Consultancy service has been hired for this purpose. Field work for updating and validation of additional seven secondary canals, namely, S0, S2, S3, S4, S5, S6 and S7, is going on.

A pilot parcellary map for S1 (branch 2) has been prepared and validation from the WUA is in progress. The complete parcellary map for water management objective is completed in June, 2015. Calibration reports including stage-discharge graphs and tables and gauge templates for flow measurement structures at KIS have been prepared.

Preparation and implementation of COP and CMP or AMP

Preparation of draft report on Water allocation plan for secondary canals and direct turnouts from Main Irrigation Canal, Reach 1 to 5, is completed. OPD has organized a workshop at Guide for SMU and WUA to disseminate the draft plan and finalize it for its implementation from coming season.

Draft Canal operation plan (COP) has been prepared for winter wheat and main paddy season for KIS and test implementation of the COP winter-wheat was conducted in January, 2013 for main canal.

A draft canal maintenance plan (AMP) for main canal has also been almost prepared to assist the WUA to better understand the operation and maintenance needs and associated budgetary requirements and related ISF fees. Extensive awareness training in COP and AMP development and implementation to SMU staff and WUA members has been completed.

SMU is also developing draft water allocation plans for the secondary canals as precursor to extending the COP to the secondary canal level. These draft water allocation plans are envisioned as useful tools for exploring various scenarios for water allocations on individual secondary canals during discussions between TA-B and the SMU and secondary canal WUAs. It is anticipated that the complete form of final COPs will be prepared and extended to the secondary canals during the Component-B extension period (2015-2018 June 2018).

The overall trainings conducted for the capacity development of WUA are shown in the following table.

Table 3.11: Water management Capacity Development of WUA and DOI Staff

Key Activities	Target/ Persons	Target Nos	Progress	Trained			Results
				Male	Female	Total	
1. Initial Capacity Develop (Knowledge/Awareness on)							
Importance of farm water management	DOI BCC-CP	75	20 DOI 50 BCC	69	8	77	BCC expressed interest on changed irrigation practices over the traditional irrigation practices
Importance of irrigation schedule /canal maintenance	DOI WUA-AC	60	60	6	54	60	Systematic irrigation scheduling and maintenance process were liked by BC members
2. Advance Capacity (Knowledge + Skill)							
Calibration Stations in Main Canal		19	14				DoI in KIS started delivering bulk water delivery measurement in eight branch canal off-takes
Structure calibration - Trained person	DOI/WU A	110	113	100	13	113	DOI staff & BC-members/learned importance and process of canal structure calibration
COP and AMP at Main Canal Level		1,/1	1/1 draft				Being finalized AMP inventory prepared
COP /AMPat Branch Canal Level		15/15	0				
COP developments & use (SMU-4, MCC-3, BCC-2, TCC-2 CMP/AMP-use	SMU+W UA Member s	410	—	—	—	—	—

Studies/Evaluation/Impacts

Physical performance of service canals (tertiary canals) is critical for equitable distribution of water to farmers' fields and success of Irrigation Management Transfer. So, OPD hired consultancy service and completed study for assessment of performance (inventory) of all the service canals of KIS.

Sitagunj Irrigation System (SIS), SMIS

Progress for the period March 2016 to May 2016

Canal Operation Plan for the main canal is complete. It includes cropping pattern, water balance study (Matching demand and supply) and irrigation schedule. This COP will be implemented from this monsoon paddy. Before implementation of COP, preparation is going on for training SMU Staff, Dhalpas (Gate operators) and WUA main committee executives.

Cumulative Progress as of February 2016

Initial capacity development (Knowledge and skills)

Targets of WUA initial completed.

A three day training on "On and Off Farm Water Management" was organized and conducted from February 6-8, 2013, by the SMIS-Sitagunj SMU. The purpose was to improve the technical capacity of gate operators, dhalpas and farmer leaders. Thirty participants including six Engineers, sixteen Dhalpas and gate operators, and twelve leading farmers participated in the training. The participants acquired knowledge on the types and use of various water controlling structure, water distribution methods, irrigation schedule preparation, and canal operation.

Advance capacity development

Parcellary map preparation

The parcellary mapping of SMIP-Sitagunj was completed in early 2013 however verification of the map and conversation of the maps in soft formats is expected to be completed within next year. Various other SMU and WUA support and water management activities are underway or planned at SMIS.

Calibration

Calibration and gauging for 13 (out of 13) existing off takes from the Sitagunj (S9) canal have been completed, plus many additional downstream locations. This is a significant accomplishment. Some additional structures have also been calibrated and/or gauged.

Each structure along S9 canal has also been demarked with a unique label indicating the type of structure and its location within the S9 system. This is very helpful for the operations and maintenance

Preparation and implementation of COP and CMP or AMP

A draft form of Canal Operation Plan (COP) has been prepared in SMIS main canal and test implementation trial of the plan has been initiated. The draft COP for the SMIS Sitagunj (S9) canal needs further update with current seasonal spring cropping data (irrigated area and cropping pattern) for the development of crop water requirement and preparation of the water delivery schedule for spring paddy crop. Draft Canal Maintenance Plan (CMP) for SMIS-Sitagunj has been prepared. This plan will assist the SMIS-Sitagunj WUA to better understand the operation and maintenance needs and associated budgetary requirements and related ISF fees. The training conducted for the capacity development of WUA is shown in the following table.

Table 3.12: Water management Capacity Development of WUA and DOI Staff

Key Activities	Target/ Persons	Target Nos	Progress	Trained			Results
				Male	Female	Total	
1. Initial Capacity Develop (Knowledge/Awareness on)							
• Importance of farm water management	DOI/WU CC/BCC BCC-CP	50	110	109	1	110	WUCC/BCC expressed interest on changed irrigation practices over the traditional irrigation practices
• Importance of irrigation schedule /canal maintenance	\BCC/TC C/Dhalpa	130	140	136	4	140	Systematic irrigation scheduling and maintenance process were liked by BC members

2. Advance Capacity (Knowledge + Skill)							
Calibration Stations in Sitaganj Distributary		13	13	—	—	—	Complete
Structure calibration (DoI-20, WUCC-5, BCC-65) - Trained person	DOI/WUCC/BCC	,90	DoI (20)	20	0	20	DOI staff are skilled on importance and process of canal structure calibration
COP and AMP at Distributary Level		1-1	0				COP is complete
COP and AMP at Branch Canal Level		13-13	0				
COP developments & use (SMU-4, WUCC-3, BCC-2, TCC-2) • CMP/AMP-use	SMU+WUA Members	577	—	—	—	—	—

BCC-13, TCC committee 272 nos.

Narayani Irrigation System (NIS) - Block-8

Progress for the period March 2016 to May 2016

No changes or activities during this period

Cumulative Progress as of February 2016

Several activities have to be initiated to complete water management programme in NIS. Before all this, decision should be taken on level of program intervention i.e. up to branch canal or tertiary level.

Initial capacity development (Knowledge and skills)

Not many inputs have been given in NIS for initial capacity development of WUA members. These shortcomings have to be fulfilled during AF period.

An Action Plan covering COP development and structural calibration for the 2012/13 fiscal year was developed by the SMU of NIS with the assistance of TA-B. However, little actual progress was achieved at NIS. Historical data of the flow measurements were obtained from Block 8. Eleven years discharge data were collected for the NEC head regulator. Data was compiled and analyzed. A report titled "*Water Availability and Current Canal Operating Practices*" was prepared by TA-B, providing a basis for discussion on water availability agreement between the DOI and WUA.

Calibration

SMU staffs from NIS have participated in several training and capacity building sessions, including methods of calibrating water measurement structures. Calibration reports have been prepared including Stage-discharge graphs and tables and gage templates for 6 flow measurement structures at NIS-Block 8. However, many structures within the NIS Block-2 sub-system require repair or replacement, including many water measurement structures. Repair of these structures were placed under the scope of the contracts and the contractor couldn't complete the work.

Preparation and implementation of COP and CMP or AMP

The TA-B International Water Management Expert and National Hydraulic Engineer have worked closely with the NIS WUA and SMU to develop a draft COP for the NIS-Block 8 main canal. Implementation testing was planned for the proposed extension period. However, NIS has been suffering for several years from an unavailability of reliable main canal deliveries due to maintenance and/or irregular operation at the main canal headworks in India. During the last year it has not been possible to effectively test the initial draft COP for main canal.

Draft Canal Maintenance Plan (AMP) has been developed as guideline for NIS in a crude form because of incompleteness of ESI works. This plan can form the basis for the NIS Block -8 WUA to better understand the operation and maintenance needs and associated budgetary requirements and related ISF fees. However, it has not been possible to test, refine, or implement the preliminary Draft CMP due to the incomplete state of the ESI works.

The training conducted for the capacity development of WUA is shown in the following table.

Table 3.13: Water management Capacity Development of WUA and DOI Staff

Key Activities	Target/ Persons	Target Nos	Progress	Trained			Results
				Male	Female	Total	
1. Initial Capacity Develop (Knowledge/Awareness)							
Importance of farm water management	DOI/WUCC/ BCC BCC-CP	100	145	97	48	145	
Importance of irrigation schedule /canal maintenance	\BCC/TCC/ Dhalpa						
2. Advance Capacity (Knowledge + Skill)							
Calibration Stations in BI-8	WUCC,BC C- Members	7	o				
• Structure calibration (Dol- , MCC, BCC-5) - Trained person	SMU/Dol Staff		13	13	0	13	DOI staff are skilled on importance and process of canal structure calibration
COP and AMP at MSC Level		1					
COP at Branch Canal Level		6					
• COP developments & use (SMU-4, MSC-3, BSC-2, TCC-2) • CMP/AMP-use	SMU+WUA Members+ SMU	230	—	—	—	—	—

MSC-1,BSC-9 committee, Tertiary CC-102 nos.

Mahakali Irrigation System phase-I

Progress for the period March 2016 to May 2016

COP has been prepared for main canal operation SMU engineers, Gate operator and tertiary Chairpersons have been trained on it. SMU plans to test their COP from monsoon paddy. For this gage fitting and structure calibration works have been completed:-

Cumulative Progress as of February 2016

Action Plans covering institutional development and water management activities for the current and for the next three fiscal years have been developed by the SMU of MIS Stage-I.

Removal of illegal outlets from the Branch Canals

Forty three (43) out of 60 illegal outlets inserted in the canal bed of Ultakham BC of Block-C were removed and water flow got reach to the tail ender farmers. For this a WUA committee including chairman, General Secretary, Vice Chairman and Central WUA Chairman, Division Chief and Engineers, and AO were mobilised during whole process.

Applied process – Meetings were held with tertiary committee and farmers at two places in Block C; Identification survey was conducted; related farmers were consulted in field. Then RWUA sub-committee decided to remove pipes in two phases.

Advance capacity development Initial capacity development (Knowledge and skills)

Actual progress in water management activities has been limited, primarily due to absence of Technical Assistance (TA) after June, 2014.

Parcellary map development

Parcellary Mapping of the MIS Stage I has been developed and validation of the map is in progress.

Preparation and implementation of COP and CMP or AMP

SMU staff from MIS has attended a number of training and capacity building sessions, including methods of developing and maintaining a Canal Operating Plan (COP), September 11 through September 15, 2011. The training focused on the use of Crop Watt software, developed by FAO and freely available on the internet, for the development of crop water demands within the irrigation system, and the widely available Excel software for relating irrigation demand to available supply and optimizing productive output within defined constraints. SMU engineers from KIS also attended this training. In total, 9 Agency personnel participated in this training. Araft CMP has been developed for MIS stage-I. Implementation testing has been initiated and will continue through the current year.

Calibration

Calibration and gauging for 10 (out of 11) existing off takes from the main canal within MIS Stage-I has reportedly been completed. The SMU reports that they are also developing an action plan for calibrating additional structures within the Stage-I sub-system.

WUA and DOI staff are cooperating to record irrigation flow data at 6 locations within MIS Stage-I. These are: MIS Border Weir, Basantpur Minor, Majhgaon Minor, Mahendranagar Distributary at station 5+172, Ultakham Distributary at station 0+581, Sisaiya Distributary at station 0+426. Gate-keepers (Dhalpas) of MIS are collecting this flow data. The data is being stored in the SMU's computer. This data is also available to the OPD and TA-B for study and analysis. It should be noted that MIS Stage-1 has historically benefited from an abundance of irrigation water due to its advantage in geographical and temporal positioning during the development of the MIS system, at least up to this point in time. The WUA of MIS Stage-I is not particularly interested in conducting a program of water measurement, as the data will most likely reveal that MIS Stage-I receives substantially more water than typically considered necessary for the crops and land area involved, and probably also that MIS Stage-I is abstracting more than Stage-II on a unit area or other similar comparative basis. The training conducted for the capacity development of WUA are shown in the following table.

Table 3.14: Water management Capacity Development of WUA and DOI Staff

Key Activities	Target/ Persons	Target Nos	Progress	Trained			Results
				Male	Female	Total	
1. Initial Capacity Develop (Knowledge/Awareness on)							
• Importance of farm water management	DOI/WUCC/B CC BCC-CP	150	154	95	64	154	
• Importance of irrigation schedule /canal maintenance	\BCC/TCC/ Dhalpa						
2. Advance Capacity (Knowledge + Skill)							
Calibration Stations in MC		9	9				
• Structure calibration (DoI- , MCC, BCC-5) - Trained person	SMU/DoI Staff	15	7	7	0	7	DOI staff are skilled on importance and process of canal structure calibration
COP and AMP at Main canal		1-1	1-1				Draft level
COP and AMP al BC Level		11-11	0				
Training on COP at MC Level	SMU/DoI Staff	230	(219)	(181)	(38)	(219)	SMU/DOI staff learned about importance and process of canal operation Plan. Completion of this period

COP developments & use (SMU-4, RC-3, BC-2, SCC-2, TCC-2 • CMP/AMP-use	SMU+WUA Members						
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Regional Committee-1, Block Committee-5-, Secondary Canal-1

TCC-198 committee nos

Studies/Evaluation/Impacts

A study of irrigation practices adopted by the farmers for early paddy season at branches BJ 4/4 and BK 1/2 of MIS Stage-I have been initiated. Two WUA members of MIS Stage-I are involved to collect data. This information will be used to help improve the Draft COP.

3.3 Progress on Infrastructure Development

Outcome: Improved physical performance of irrigation systems.

Indicators: Tail-enders reporting improved water availability (relative to baseline) as a result of ESI works

Output: Canal network conveyance capacity in original designed condition; all structures including water measuring structures functional and operable

Kankai Irrigation System (KIS)

Progress for the period March 2016 to May 2016

No Changes for Package IV. There is remarkable physical progress for package XIII, XVI during this period as indicated in the following table: 3.15

Cumulative as of May 2016

World Bank Part (ESI): All completed as before

The details of the contract amount and the remaining liabilities are presented in the following table

Table 3.15: Infrastructure Development Status in KIS

S. No.	Name of On-going Projects	Contract Amount	Progress Till Date	Physical Progress	Remaining Liability
1	World Bank Part (ESI)				
	Package-I (NCB part)	29379462.91	Completed		
	Package-II (NCB part)	21940831.67	Completed		
	Package-III (NCB part)	24310489.13	Completed		
	WUA Payable Part	9209641.63	Completed		
	WUA Contribution Part	1183700	Completed		
2	GoN part				
	Package-IV (Contract part)	19894709	Ongoing	80%	(78.5)
	Package-IV (Contract part)	12511994	Completed		
	Package-VI (Contract part)	6984988	Completed		
	Package-VII (Contract part)	19100990	Completed		
	Package-VIII (Contract part)	17758821	Completed		

S. No.	Name of On-going Projects	Contract Amount	Progress Till Date	Physical Progress	Remaining Liability
3	Headwork's and Additional ESI Works				
	Package-IX (WUA part)	5700000	Completed		
	Package-X (NCB part)	8000000	Completed		
	Package-XI (NCB part)	12068000	Completed		
	Package-XII (NCB part)	7374000	Completed		
	Package-XIII (NCB part)	7496000	Ongoing	75%	2933414.04
	Package-XIV (NCB part)	5483000	Ongoing	83%	956632.77
	Package-XV (NCB part)	6221000	Completed		
	Package-XVI (NCB part)	15544000	Ongoing	75%	7472364.92
	Package-XVII (NCB part)	2233510	Ongoing		723976
	Package-XVIII (NCB part)	12318800	Complete		
	Package-XIX (NCB part)	11843800			

Sitagunj Branch, Sunsari-Morang Irrigation System

Progress for the period March 2016 to May 2016

There is considerable progress in 5 packages under additional ESI works under DOI part except in Packages-1, IV and VII where the progress is not reported at all.

Cumulative as of May 2016

A total budget of NRs 234,132,200 was approved for the infrastructure development of Sunsari-Morang Irrigation System, the ESI part constituting NRs 119,294,200 and GoN part as NRs 114,838,000.

Table 3.16: Infrastructure Development Status in SIS

S.NO.	Name of ON-going Projects	Estimated Amount	Contract Amount	Progress till date	Remaining Liability
1	World Bank Part (ESI)				
i)	Package No I		15,064,445.25	Completed	
ii)	Package No II		19,059,303.34	Completed	
iii)	Package No III		18,176,878.26	Completed	
iv)	WUA payable part		5,990,600.00	Completed	
v)	WUA Contribution part		9,812,100.00	Completed	
2	GON Part				
i)	Package No I		10,597,719.69	completed	
ii)	Package No II		10,230,213.18	completed	
iii)	Package No III		10,615,825.80	completed	
iv)	Package No IV		10,592,008.67	completed	
v)	WUA payable part		5,982,900.00	completed	
vi)	WUA Contribution part		8,976,100.00	completed	
3	Additional ESI Works				
i)	ESI works Package I		14,930,000.00	Completed	

	Package-8		24617735.17	ongoing	
3	Additional ESI Works				
i)	ESI works Package I		14,930,000.00	Completed	
ii)	Additional Package I			0 %	
iii)	Additional Package II			40	
iv)	Additional Package III			35	
v)	Additional Package IV			0	
vi)	Additional Package V			85	
vii)	Additional Package VI			75	
viii)	Additional Package VII			95	
ix)	Additional Package VIII			0	

Narayani Irrigation System (NIS) – Block 8

Progress for the period March 2016 to May 2016

Additional ESI works packages –I and II were completed during this period. There is only 50 % financial progress in WUA building.

Cumulative as of May 2016

The Irrigation Management Transfer (IMT) agreement between DOI and NIS-Block 8 was delayed in NIS for May 12, 2011. This has delayed all other activities in NIS. However, substantial progress has been achieved in civil works in Narayani in last couple of years compared to water management and institutional development activities. Special focus has been given to NIS, with regular monitoring and evaluation of the progress, increased interaction between SMU and WUA in presence of TA and OPD representation. The progress is shown as below.

Table 3.17: Infrastructure Development Status in Block-8 of NIS

S.N.	Name of On-going Projects	Contract Amount (NRS)	Progress till Date
1	World Bank Part (ESI)		
i)	Package No. I	9,713,496.47	Completed
ii)	Package No. II	8,268,416.22	Completed
iii)	WUA Payable part	5,998,188.80	Completed
iv)	WUA Contribution part	3,780,021.40	Completed
2	GoN Part		
i)	Package No. I	21,844,591.27	Completed
ii)	WUA Payable part	4,751,340.00	Completed
iii)	WUA Contribution part	2,768,206.05	Completed
3	Additional ESI Works		
i)	ESI Works Package I	5,742,019.00	100%
ii)	ESI Works Package II	4211540.98	100%
iii)	Building (WUA)		50%

Mahakali Irrigation System – Phase I

Progress for the period March 2016 to May 2016

Remarkable progress of ESI works in MIS-I is reported in this period as shown in the following table

Cumulative as of May 2016

In Mahakali Irrigation Project, Phase I the ESI package II is incomplete. Under GON package package I and II are incomplete as shown in the following table.

Table 3.18: Infrastructure Development Status in Phase-I MIS

S.N.	Name of On-going Projects	Estimated Amount	Contract Amount (NRS)	Progress till Date	Physical Progress	Remaining Liability
1	World Bank Part (ESI)					
i)	Package No. I		1,349,885.00	Completed		
ii)	Package No. II		17,330,907.00	Completed		
iii)	WUA Payable part		5,707,412.00	Completed		
iv)	WUA Contribution part		4,034,991.00	Completed		
2	GoN Part					
iv)	WUA Payable part		4,751,340.00	Completed		
v)	WUA Contribution part		2,768,206.05	Completed		
	Total					
3	Additional ESI Works					
i)	ESI works Package I	5,671,356.63	2,645,547.47	Ongoing	90	
ii)	ESI works Package II	5,877,796.80	2,849,905.92	Ongoing	46	
iii)	ESI works Package III	5,981,412.06	2,966,106.40	Ongoing	99	
iv)	ESI works Package IV	5,999,957.91	3,153,592.17	Ongoing	80	
v)	ESI works Package V	5,240,797.07	3,127,154.98	Ongoing	99	
vi)	ESI works Package VI	4,216,023.68	2,384,677.24	Ongoing	46	
vii)	ESI works Package VII	49,440,993.42	14,961,845	Ongoing	70	
viii)	ESI works Package VIII	49,849,290.57	19,798,802.71	Ongoing	28	
ix)	ESI works Package IX	45,757,000.00	17,330,906.72	Ongoing	52	

B. Subsystems: Additional Financing

3.4 Progress on WUA Development

Outcome: Institutionally and financially sustainable WUA. Indicators: 1-Holding regular meetings. 2- Collecting fees for adequate O&M. 3- Maintain accounts/cash registers

Output 1: Established and effectively functioning WUA

Output 2: Targeted resources generated and mobilized by WUA

Ramgunj Irrigation System, SMIS

Progress for the period March 2016 to May 2016

During this period three (3) capacity development training on construction management and quality control; ISF awareness and capacity development and one observation training were completed. A total of 39 participants including SMU Staff, contractors and WUA members of WUCC participated in March 2016. Eight events of awareness on ISF, WUA constitution, roles and responsibilities and need of WUA Offices to water course executives members were provided to prepare and agitate for future programs.

Cumulative Progress as of February 2016

WUA office establishment activities

Proposal from WUA for the office establishment has been received by SMU which is in the process of mobilizing the grant fund

Orientation and Work plan finalization

On February 19, 2016, one day work plan finalization workshop was organized by OPD and SMU, SMIS in the field office of WUA. All together 27 participants including one female member of WUA, SMU staff and TA-B member were present in the workshop. WUA members took part in the discussion and contributed in finalizing the 5 year work plan of IWRMP.

Workshop output: Unanimously approved five year work plan of SMU and WUA was produced.

ISSUES-WUA office support grant hasnot been effective yet

Narayani Irrigation System, Block-2

Progress for the period March 2016 to May 2016

Three events of WUA development trainings on TOT, orientation on Annual plan and preparation and construction management and Quality Control were completed during this period. A total of 20 local resource persons including 3 females were developed for WUA. WUA intends to use these local persons for further WUA trainings and awareness programs. Twenty seven (27) WUA members of Branch and Tertiary committee gained knowledge on construction management and Quality Control. WUA intends to mobilize these trained persons for construction Quality Control in different construction sites allocated to different contractors. Thirty nine members of WUCC including 5 females participated to learn the skill of preparing annual plan of WUCC and Branch Canal Committee. After training these trained members would assist WUA in preparing annual plan.

Cumulative Progress as of February 2016

WUA office establishment activities

Proposal from WUA for the office establishment has been received by SMU which is in the process of mobilizing the grant fund .The following WUA support activities have been completed.

- a. Temporarily, one WUA coordination committee office has been established at WUA chairman's house. Records, filing systems, bills and vouchers which have been maintained by WUA are found satisfactory. Seven WUA branches offices are established at the houses of chairmen and secretaries with the assistance of TA
- b. Draft administration, financial, ISF collection and maintenance WUA rules were prepared and completed with the consultation of SMU and WUA
- c. Annual work plan and ISF collection plan have been prepared with WUA. Annual budget for orientation training program of WUA are completed and submitted to SMU for approval. Training schedule and estimate for initial capability development trainings, 8 events of one day orientation program and training on record keeping, office management, ISF collection and management have been completed and submitted to SMU.

Orientation and Work plan finalization

On February10, 2016, one day work plan finalization workshop was organized by OPD and SMU, SMIS in the field office of WUA. All together 39 participants including 5 female members of WUA, SMU staff and TA-B member were present in the workshop. WUA members took part in the discussion and contributed in finalizing the 5 year work plan of IWRMP.

Workshop output: Unanimously approved five year work plan of SMU and WUA was produced along with the following commitments.

- Narayani Irrigation Management Division (NIMD), Parsa will support the WUA of coordination committee of NIS Block-2 to purchase furniture and stationery from the achieved WUA establishment grant money by the end of 10 Falgun, 2072. NIMD will involve WUA and consultant representatives in purchasing of those items.
- All the seven branch offices of NIS Block-2 will be established by the end of 20 Falgun, 2072

- System Coordination Committee (SCC) meeting of NIS Block-2 will be conducted by the end of 02 Falgun, 2072
- Subject matter specialists will visit the site by the end first week of the Falgun, 2072 to discuss about the preparation annual work plan of WUA
- Training manual on Construction Management will be prepared by Mr. Baidynath Prasad, engineer of TA by the end of 03 Falgun, 2072
- Training on Construction Management will be conducted by the end of 20 Falgun, 2072. NIMD will manage to conduct the training.
- Training of Trainers (ToT) for the WUA members of NIS Block-2 will be conducted by IMD, Jawalakhel within 05-07 Falgun, 2072

Mahakali Irrigation System, Phase-II

Progress for the period March 2016 to May 2016

No program inputs were reported during this period

Cumulative Progress as of February 2016

a. Orientation and Work plan finalization

On January 25 2016, one day orientation workshop was organised by OPD in Beldandi. The main purpose of the workshop was to introduce, inform and aware all stakeholders such as Region-2 WUA members, Block members, SMU staff and other concerned stake holders of AF program plan implementation process and period. The program was attended by Mr Sashi Bahadur Bisht, PD, OPD/IWRMP, Mr Chetman Budthapa, SSoc, and Mr Tikaram Baral, SDE, IWRMP along with SDE, engineers, AO from Mahakali Irrigation Management Division. The following program topics were covered:



- The ESI targets and activities
- The Institution development activities
- The water management development activities
- The Integrated crop water management activities

b. Training of trainers (TOT)

During December 27, 2015 to January 2016, two week trainers' training was organised by IMD in Dhanagadi in order to develop Local Level Resource Persons (LRPs) within Phase-II WUA of MIS. For this, a total of 20 including 4 females and 16 males leading and educated local persons were selected by the WUA and were sent to the training. The main purpose of this TOT was to prepare LRPs with training skills and knowledge, subject matter knowledge and skills (on technical and management aspects) so that the trainees can deliver the subject matter to the WUA members' and farmers effectively.



b. WUA office establishment activities

Proposal from WUA for the office establishment has been received by SMU which is in the process of mobilizing the grant fund

ISSUES-WUA office support grant hasnot been effective yet.

3.5 Progress on Water Management Development

Outcome: Improved canal operation plan (COP) adoption by DOI and WUA.

Indicators: 1-Delivery points receiving proportionate share of water. 2- Adequate DOI and WUA O&M.
3-Expenditures according to AMPs

Output: 1. Measured controlled and scheduled seasonal bulk water delivery by DOI to all WUA Branch Committee. 2. Standard and qualitative irrigation service delivery to users by WUA

Outcome: Improved maintenance practice adoption

Output: Approved asset management plan ready for implementation

Ramgunj Irrigation System, SMIS

Progress for the period March 2016 to May 2016

Preparation and implementation of COP and CMP or AMP

Preliminary data collection such as crop information, water availability study, discussion with WUA have been completed in course of preparing canal operation plan of main canal.

ISSUES: Gage painting or gauge installation has not been completed

Cumulative progress as of February 2016

Formats for cropping pattern study have been prepared

Calibration

Stations for calibration have been identified

Work plan for Water management

Activity plan preparation to achieve water management outputs and objectives have been completed. Three years activity and annual work plan have been prepared and are ready for implementation

Narayani Irrigation System, Block-2

Progress for the period March 2016 to May 2016

Preparation and implementation of COP and CMP or AMP

COP has been prepared and is going to be implemented during this spring paddy season.

ISSUES: Gage painting or gauge installation has not been completed

Cumulative progress as of February 2016

Formats for cropping pattern study have been prepared

Calibration

Stations for calibration have been identified

Work plan for Water management

Activity plan preparation to achieve water management outputs and objectives have been completed. Three years activity and annual work plan have been prepared and are ready for implementation
Crop data collection and water balance study is going on for preparing COP

Work plan for Water management.

Activity plan preparation to achieve water management outputs and objectives have been completed. Three years activity and annual work plan have been prepared and are ready for implementation

Mahakali Irrigation System, Phase-II

Progress for the period March 2016 to May 2016

Preparation and implementation of COP and CMP or AMP

Preliminary data collection such as crop information, water availability study, discussion with WUA have been completed in course of preparing canal operation plan of main canal. The COP will be prepared and implemented for monsoon paddy

Cumulative progress as of February 2016

Structure calibration plan and list of structures have been prepared.

Work plan for Water management

Activity plan preparation to achieve water management outputs and objectives have been completed. Three years activity and annual work plan have been prepared and are ready for implementation

ISSUES: Gage painting or gauge installation has not been completed

3.6 Progress on Infrastructures Development

Outcome: Improved physical performance of irrigation systems.

Indicators: Tail-enders reporting improved water availability (relative to baseline) as a result of ESI works

Output: Canal network conveyance capacity in original designed condition; all structures including water measuring structures functional and operable.

Remarkable progress has been made in RIS, SMIS (61% financial) and in MIS-II (34% physical). There is very low percentage (less than 10%) of progress has been reported in NIS Block-2.

Ramgunj Irrigation System, SMIS

Progress for the period March 2016 to May 2016

There is good progress of ESI works in RIS, SMIS. The average percentage of the civil works progress, physical and financial, comes out to be about 67% and 61 % respectively.

Cumulative Progress as of May 2016

In AF sub projects contract award process has been completed and the contractors have started material and equipment mobilization to start the contract works.

Estimated Amount and contract amount of ESI works in packages with physical progress is shown in the following table.

Table - :3.19 Progress of ESI in RIS, SMIS

S. No.	Name of On-going Projects	Major Activities	Estimated Amount RS	Contract Amount RS	Paid amount RS	Physical Progress
1	World Bank Part (ESI)					
i)	Package A	Essential Structures Improvement Works of Ramgunj Irrigation System at SS11, SS11-T, SS11-T2, S10-T1, S10-T2, S10-T3, S10-T4 & S10-T5	65168854.5	45124773.6	Ongoing	60
ii)	Package B	Essential Structures Improvement Works of Ramgunj Irrigation System at SS10A, SS10A-T1, SS10A-T2, SS10A-T3, SS10B, SS10B-T1, SS10B-T2 & SS10B-T3	67941625.01	42557965.3	Ongoing	85
iii)	Package C	Essential Structures Improvement Works of Ramgunj Irrigation System at SS10C, SS10C-T1, SS10C-T2, S10D, SS10D-T1, SS10D-T2, SS10D-T3, SS10E-SS10E-T1 & SS10-T2	78308164.36	51922329.14	Ongoing	45
iv)	Package D	Essential Structures Improvement Works of Ramgunj Irrigation System at S10 & S10-T6	62312929.97	40945759.06	Ongoing	70
v)	IWRMP/AF/Dol/W/NCB-89SMIP	Office Building Construction Works at Ramgunj	7428300.00	7045770.11	Ongoing	65
vi)	WUA Payable Part	Canal Reshaping and Desilting works, S10B-T3	13,660,158.45	5959594.81	Ongoing	90
vii)	WUA Contribution Part	Canal Reshaping and Desilting works, S10-T1, T2,T4,T6, SS10A-T1,T3, SS10B-T2, SS10C-T2, SS10D-T3 & SS10E-T1 of Ramgunj Secondary Canal	27,508,838.63	27508838.63	Ongoing	60
	Total Estimate 322328870.92					
	Total Contract- Without WUA Part 221075030.66					

Narayani Irrigation System, Block-2

Progress for the period March 2016 to May 2016

The ESI work progress in Block-2 is very slow. During this reporting period the physical progress reported is less than 10%.

Cumulative Progress as of May 2016

In this sub projects contract award process has been completed and the contractors have started material and equipment mobilization to start the contract works.

Estimated Amount and contract amount of ESI works in different packages with physical progress is shown in the following table.

Table :3.20 Progress of ESI

S.N.	Contract no.	Name of Works	Estimated Amount Rs	Contract Amount RS	Paid Amount RS	Progress %
1	IWRMP-AF/DOI/W/NCB-78/Parsa	Construction /Maintenance of Canal Structures and protection works of MSC,SSC1 to SSC 8 of BLOCK 2(NIS), Parsa	40792876.21	26811873.7	Ongoing	
2	IWRMP/AF/DOI/W/NCD-79/Parsa	Construction /Maintenance of Canal Structures and protection works of BSC 1, 1A,2,3, canal road improvement of MSC, BSC 2, 3, 4, 5 of BLOCK 2 (NIS) Parsa.	54337448.72	32233414.88	Ongoing	
3	IWRMP/AF/DOI/W/NCD-80/Parsa	Construction/ Maintenance of canal structures and protection works of BSC 4,5,6, of BLOCK 2 (NIS) PARSA	37362697.54	24344815.99	Ongoing	
4	WUA Payable Part					
5	WUA contribution Part					
	Total RS					

Mahakali Irrigation System, Phase-II

Progress for the period March 2016 to May 2016

There is good progress of ESI works in MIS-II. The average percentage of the civil works progress (physical) comes out to be about 35%.

Cumulative Progress as of May 2016

In AF sub projects contract award process has been completed and the contractors have started material and equipment mobilization to start the contract works.

Estimated Amount and contract amount of ESI works in different packages with physical progress is shown in the following table.

Table :3.21 Progress of ESI works in MIS-II

S. No .	Name of On-going Projects	Major Activities	Estimated Amount RS	Contract Amount RS	Paid Amount RS	Physical Progress %
1	World Bank Part (ESI)					
i)	IWRPM-AF/DOI/W/NC B-81	Construction of different canal structures and service road improvement works (Block 5)	82,943,224.11	48,622,369.06	ongoing	35
ii)	IWRPM-AF/DOI/W/NC B-82	Construction of different canal structures and service road improvement works (Block 6)	82,711,540.10	56,577,582.99	ongoing	30
iii)	IWRPM-AF/DOI/W/NC B-83	Construction of different canal structures and service road improvement works (Block 7)	86,813,887.23	55,772,733.29	ongoing	32
iv)	IWRPM-AF/DOI/W/NC B-84	Construction of different canal structures and service road improvement works (Block 8)	67,356,932.37	42,783,442.39	ongoing	40
v)	WUA Payable Part	Canal earthworks.	24,874,476.00	24,874,476.00	ongoing	
			344,700,059.81	228,630,603.73		
	Contingency Liability					
	Total Liability					

Recommendations from TA-B quality control engineers

Few structures like canal lining works were in progress. Visual checking of construction materials were made and advised field engineers for better quality of materials and quality control.

A bridge site was also visited where they have encountered problem in fixing the span & type of bridge. Advices were given to survey the details of the drain as the bridge site has more span compared to the drain width for which the proposal was VRB. By changing the type of bridge due to site condition, the cost of bridge may vary. **It is advised to take care of estimate & condition of contract.**

The lining works in tertiary canal was observed where vertical lining was in progress. The lining was 12.50 cm thick but the alignment needed some careful supervision. Honey comb was seen at the back side of vertical wall. **It was advised to repair those places properly and such types of happenings should be controlled in future.**

Canal lining in branch canal was also completed in slope but requires better finishing.

DOI and WUA signed on Phase –II IMT agreement documents

All consultation processes (first, Second and Third) including other preparation studies and required steps of IMT have been successfully completed in all the three AF sub projects (RIS/SMIS, Block-2, NIS; Phase-I, MIS). Great mass of WUA members and farmers got awareness about IMT objectives and processes; hence they gave due recognition and concurrence for signing IMT agreement documents. Therefore, to start programmer execution in AF- IMT Subsystems, both DOI and WUA signed IMT agreement documents in a big gathering attended Mr.N.P Saud, Minister & M.P.Ghimire, Secretary from MOI, Director General, Deputy Director General, Regional Director from DOI, staff from /IWRMP, staff from DOA, TA-B consultants, WUA members, local politicians, local agency staff and farmers.

Table 3.22: Dates of signing agreements AF- IMT Sub-projects

Sub-projects	Date of IMTA signed	Participation
Block-2, Narayani	March 24, 2015	DG, DDG, RD, OPD/ IWRMP, -DOI , WUA, Farmers
Ramgunj, SMIS	May 28, 2015	Minister, Secretary, DG,DDG, RD,DOA,TA,WUA, Farmers
Phase -II Mahakali	June 19, 2015	Minister, Secretary, DG,DDG, RD,DOA,TA,WUA, Farmers

Remarkable changes on the awareness about the ISF collection in these three AF Subsystems have resulted in collection of ISF amount as seen in the Annex-1B

4. Other Progress

Progress from March 2016 to May 2016

Financial Status: All expenditures under component-B, IWRMP have been reimbursed.

Cumulative Progress as of February 2016

a. Procurement and Deployment of Consultants

Following the successful procedures and contract negotiation, a consortium of international and national consulting firms led by SHELADIA Associates, Inc. USA in joint venture with MULTI Disciplinary Consultants (P) Ltd., Nepal has been mobilized to commence the consultancy services for Technical Assistance Support from September 1, 2015. The firms in association in the capacity of sub consultants include RITI Consultants (P) Ltd. (RITI), Environmental Resource Management Consultant (ERMC), and Sustainable Infrastructure Development Foundation (SIDeF).

- **Date of Contract Agreement** : **August 23, 2015**
- **Date of Commencement of Services** : **September 1, 2015**
- **Date of Contract Termination** : **June 30, 2018**

International Consultant, Mr. Colin William Steley, Team Leader/Irrigation Management Specialist, and National Consultants: Mr. Rishi Ram Sharma Neupane, Deputy Team Leader/Irrigation Management Expert; Mr. Durga Prasad Uprety, Senior Institutional Development Specialist, Mr. Desh Bhakta Mallik, and Mr. Hemanta Kumar Jha, Water Management Engineers, Mr. Piyush Kumar Sharma, Mr. Narayan Prasad Koirala and Mr. Shiva Kumar Shrestha, three Institutional Development Specialists with Mr. Kulchandra Sharma, Financial Management Specialist were employed on September 1, 2015. Since then, these professionals started studying & reviewing documents along with necessary assistance from the Team Leader and Deputy Team Leader for the project activity implementation support.

Office Establishment of Consultants

Three rooms have been provided to the TA Team on the Ground Floor of the DoI Building. Necessary furniture, computers, stationeries have been furnished. Under Admin/Finance Officer, Mr. Padam Tamang; one office secretary/computer operator Mss. Laxmi Ghale and two office boys Mr. Ram Sharan Karki and Mr. Sajjan Thapa have also been employed to assist the TA Team in the Central Office. Similarly, four site offices in Kankai, Sunsari Morang, Narayani and Mahakali are also established and Mr. Ravi Koiree and Mr. Pramod Paswan in Narayani Irrigation System and Ms. Gita Bohara and Mr. Dal Bahadur Khadayat have also been mobilized in the Mahakali Irrigation System. The Project Director, IWRMP has written to office chiefs of concerned irrigation divisions to provide office space to the TA Team.

b. Orientation and work plan discussion workshop

With a view to orient Subsystem staff and new consultants on Irrigation Management Transfer objectives, processes, outcomes and work plan, a three-day workshop was organized in Hotel View Bhrikuti, Godawari by IWRMP on September 29-October 1, 2015.

Key activities of Workshop

- Presentation of existing status and work progress of IMT sub-projects by all SMU Chiefs of the IMT Subsystems.

- Presentation and discussion on the Phase-i IMT field study findings and draft work plan of AF, IMT by TA-Team.
- Presentation and discussion on the revised process steps of IMT implementation process (Annex-)

Workshop outputs and use

- Improved three- years work plan to be used in all three Subsystems of AF IMT (Block-2, NIS; Ramgunj, SMIS and Phase- II, Mahakali) (Annex).
- Three- years institutional and water management draft work plan to be used in Phase-I IMT sites (Annex)
- Revised 14 steps project implementation process to be utilized in AF IMT sub projects by TA Team.

c. Completion of Inception Report by TA

After development of consultants, Inception Report containing the following important features was prepared by consultants and was submitted to OPD/IWRMP on....

Key features of Inception Report

- Inception Report preparation activities
- IMT implementation status
- Strategic approval of TA support]
- Proposed three- years and annual work plans for all 7 sub-projects of IMT
- TA work plan and logistic arrangements

d. IMD Involvement in IWRMP

In order to promote involvement and support of IMD during and after IMT for sustaining achieved capacity level of WUA, and then, with that sustaining irrigation management performance and benefit, a strategy and approach finalization meeting was organized by IWRMP on December 3, 2015 in the office of DDG/IMD . In the meeting Mr. Basudev Lohani, DDG/IMD; Chetman Budthapa, S. Sociologist/IWRMP; Mr. Tika Ram Baral, SDE/IMWRP, Mr. Rajendra Bir Joshi, SDE/IMD; Mr. Gauri Lal Upadhaya, S. SOC/IMD, Mr. Rupesh Bhattarai, Engineer/IMD; Mr. R.R.S.Neupane, DTL/TA-B and Mr. Piyus Kumar Sharma IDS/TA-B were present.

Discussion and outputs of the Meeting

- All planned activity schedules of 7 Subsystems under IMT were presented to DDG/IMD one day earlier to discussion.
- IMD was advised to choose the activities from the submitted schedules and come up with the proposal for WUA capacity building activities for the current and coming fiscal years.
- A concept of IMT program exit plan was discussed with DDG/IMD and other members who appreciated the idea and showed interest to undertake partnership of WUA after project end up.

5. Last Aide Memoire

Tables 1, 2, 3 below, are adapted from the World Bank/IDA produced aide memoir document from November, 2014. The tables below include only items related to Component B, and includes an "Action/Status" column which indicates the current state of response to each issue by IWRMP Component B.

Table 5.1: 15th Implementation Review and Support Mission, 2015

Actions	Responsible Agency	Deadline	Action/Response Status
Development of strategy for full absorption of training activities for WUA by IMD	OPD	June 2016	
All ESI under the original phase be completed	OPD	June 2016	
Finalization of SEMP implementation	OPD	February 2016	On going

Table 5.2: 14th Implementation Review and Support Mission May 7 to 19, 2015

Issue	Responsible Agency	When	Action/Response Status
Complete selection of individual Consultants	OPD IWRMP	NA	Completed
Initiate water allocation plans for secondary canals as precursor to extending the canal operating plan to secondary level	OPD IWRMP	December 2014	Completed
Preparation of Draft SEMP of 3 Subsystems (Component –B)	OPD	February 2015	Completed

Table 5.3: IWRMP Component B Issues noted by IDA support mission of April 2014: Current status of Action/Response

Issue	Responsible Agency	When	Action/Response Status
Deploy a full time account officer in OPD	OPD	August 30, 2014	Deployed.
Submit request for single source procurement of the TA teams for component A and B for the purpose of bridging	OPD	July 15, 2014	Procurement Individual consultant instead of TA selection by single source procurement was done
The field offices as well as the OPD/DOI pay more attention on the quality of work as well as workmanship during construction	OPD	Continuous	Continuing action
OPD prepare a package of higher order canal works along with indicative amount of savings	OPD	July 30, 2014	Submitted to the World Bank on 5/26/2014
Provide adequate funds and continue WUA institutional Development works in the field	OPD/IMD	Continuous	Continuing action
Report of independent evaluation of SEMP implementation of sub-projects of Kankai under Component B	OPD	July 15, 2014	Completed
Implementation of SEMP for Narayani Block 8 and Sitagunj	OPD	August 30, 2014	Budget allocation has been done in this fiscal year

Annex-1: Detail Summary of Training Events

A. Original Scope Subsystems

Topics	Before February, 2016				March 2016-May, 2016				Total				Grand Total
	KIS	SMIS	NIS B-8	MIS-I	KIS	SMIS	NIS B-8	MIS-I	KIS	SMIS	NIS B-8	MIS-I	
Events	77	35	37	39	2	0	0	10	77	35	37	49	199
Participants	4495	4068	2250	1737	57	0	0	254	4495	4093	2244	1991	12876
Male	3379	5396	1540	1285	52	0	0	204	3379	5420	1540	1489	11856
Female	1116	692	714	452	5	0	0	50	1116	693	714	502	3029
Female%	25	17	31	26	0	0	0	0	25	17	31	25	23

B. AF Subsystems

Topics	Before February, 2016			March 2016- May, 2016			Total			Grand Total
	RIS	NIS-2	MIS-II	RIS	NIS-2	MIS-II	RIS	NIS-2	MIS-II	
Events	2	1	2	9	3	0	11	4	2	17
Participants	64	39	47	262	86	0	326	125	47	499
Male	60	34	41	257	78	0	317	112	41	470
Female	4	5	6	5	8	0	9	13	6	28
Female%	6	13	13				3	10	13	6

Annex-2: ISF Collection Status

Annex-2A: Summary of ISF collection (Subsystems –Original Scope)

S.N.	Name of the Irrigation System	Fiscal Year	Targeted ISF Collection Rate Per Year as per IMT agreement (Rs)	Present ISF Collection Rate per Year (Rs)	Targeted ISF Collection Amount (Rs) (Annual)	Collected ISF Amount (Rs) (Annual)	Progress %	Remarks
1	Kankai Irrigation System (KIS), Jhapa Targeted Area: 7000 Ha	067/068 (010/011)	615/ha/Yr	210/Crop/Ha	1,200,000.00	436,668.00	36.40	ISF collection was reduced due to ESI work
		068/069 (011/012)	615/ha/Yr	210/Crop/Ha	1,000,000.00	373502.00	37.35	ISF collection was reduced due to ESI work
		069/070 (012/013)	615/ha/Yr	300/Crop/Ha	1,200,000.00	645,061.00	53.75	ISF collection was reduced due to main canal maintenance work
		070/071 (013/014)	615/ha/Yr	300/Crop/Ha	800,000.00	7,28,000.00	91.00	Target is reduced due to damage of Dhyangri aqueduct and farmers of branch 14-21 are not getting water from the canal system
		071/072 (014/015)	615/ha/Yr	300/Crop/Ha	1,200,000.00	1152950.00	96.00	Target is reduced due to damage of Dhyangri aqueduct and farmers of branch 14-21 are not getting water from the canal system
		072/073 (015/016)	615/ha/Yr	300/Crop/Ha	21,00,000.00 (Rev)	1342000.00	63%	May 2016 (Increased)
		Other Sources of Income				2,60,000 and As per required for O & M		Income from O & M Cost, Tractor and excavator hiring, Office hall hiring and Saving from Payable part
2	Sitagunj Irrigation System (SIS), Sunsari Targeted Area: 8000 Ha	067/068	1200/Ha	300/Ha	NA			
		068/069	1200/Ha	300/Ha	NA			
		069/070 (012/013)	1200/Ha	300/Ha	1,000,000.00	566,000.00	56.60	ISF collection was reduced due to construction work of aqueduct at Thalaha Khola. From branch F to J the farmers were not getting water from the branch canal systems.

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S.N.	Name of the Irrigation System	Fiscal Year	Targeted ISF Collection Rate Per Year as per IMT agreement (Rs)	Present ISF Collection Rate per Year (Rs)	Targeted ISF Collection Amount (Rs) (Annual)	Collected ISF Amount (Rs) (Annual)	Progress %	Remarks
		070/071 (013/014)	1200/Ha	300/Ha	2,000,000.00	6,58,000.00	32.90	ISF collection target is increased due to completion of construction of aqueduct at Thalaha Khola but due to irregular supply of water from the main canal system the farmers not getting water as per their requirement
		071/072 (014/015)	1200/Ha	300/Ha	2000000.00	33,000.00		ISF collection target is deceased due to poor management of WUA
		072/073 (015/016)	1200/Ha	450/Ha	3600000.00	NA		May 2016 (No Increase)
		Other sources of Income				1,00,000		Income from O & M Cost, Tractor and excavator hiring, Office hall hiring and Saving from Payable part
3	Narayani Irrigation System (NIS) Block 8 Targeted Area: 2768 Ha	067/068 (010/011)	NA	210/Ha	NA	NA		
		068/069 (011/012)	922/Ha	210/Ha	100,000.00	35,000.00	35.00	ISF collection target could not be met due to irregular supply of water in the branch canal systems.
		069/070 (012/013)	922/Ha	210/Ha	NA	NA		ISF could not be collected due to irregular supply of water in the branch canal systems.
		070/071 (013/014)	922/Ha	210/Ha	NA	NA		ISF collection has been initiated but not documented
		071/072 (014/015)	922/Ha	210/Ha	200,000.00	426,00.00	21.30	ISF collection has been initiated but not documented
		072/073 (015/016)	922/Ha	210/Ha	NA	NA		May 2016 (No Increase)
4	Mahakali Irrigation System (MIS), Stage I	067/068 (010/011)	NA	200/Ha	NA	NA		
		068/069 (011/012)	616/Ha	300/Ha	NA	9,71,000.00		Including dues ISF of the previous year

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S.N.	Name of the Irrigation System	Fiscal Year	Targeted ISF Collection Rate Per Year as per IMT agreement (Rs)	Present ISF Collection Rate per Year (Rs)	Targeted ISF Collection Amount (Rs) (Annual)	Collected ISF Amount (Rs) (Annual)	Progress %	Remarks
	Targeted Area: 5100 Ha	069/070 (012/013)	616/Ha	300/Ha	130,000.00	4,75,000.00	36.54	ISF collection target could not be met due to ESI works
		070/071 (013/014)	616/Ha	300/Ha	1,000,000.00	6,44,261.00	64.43	ISF collection target could not be met due to ESI works
		071/072 (014/015)	616/Ha	300/Ha	1,000,000.00	545,899.00	54.600	ISF collection target could not be met due to poor management of WUA
		072/073 (015/016)	616/Ha	450/Ha	1,200,000.00	430223.00	35	May 2016 (Increased)

Annex-2B: Summary of ISF collection (Subsystems –Additional financing)

S.N.	Name of the Irrigation System	Fiscal Year	Targeted ISF Collection Rate Per Year per Ha as per IMT agreement (Rs)	Present ISF Collection Rate per Year (Rs) per Ha	Targeted ISF Collection Amount (Rs) (Annual)	Collected ISF Amount (Rs) (Annual)	Progress %	Remarks
1	Ramgunj Irrigation System (RIS), Sunsari Targeted Area 6845 Ha	071/072 (014/015)	1056.00	315.0/	500,000.00	200,000.00	40.00	ISF collection was reduced due to insufficient supply of water in the canal systems
		072/073 (015/016)	1056.00	315.0/	787,000.00	NA-		May 2016 (No Change)
		073/074 (016/017)	1056.00	500.0/	2,000,000.00			Present ISF collection rate and targeted amount are as per IMT agreement
		074/075 (017/018)	1056.00	800.0/	4,400,000.0			Present ISF collection rate and targeted amount are as per IMT agreement
		075/076 (018/019)	1056.00	1056.0/	7,214,000.00			Present ISF collection rate and targeted amount are as per IMT agreement
2	Narayani Irrigation System (NIS), Block-2, Parsa Targeted Area: 2835 Ha	071/072 (014/015)	635.00	300.00	360,000.00	263,835.00	73.30	ISF collection was reduced due to insufficient supply of water in the canal systems
		072/073 (015/016)	635.00	400.00	680,000.00	NA		May 2016 (No Change)
		073/074 (016/017)	635.00	535.00	1,177,000.00			Present ISF collection rate and targeted amount are as per IMT agreement
		074/075 (017/018)	635.00	635.0/	1,800,000.00			Present ISF collection rate and targeted amount are as per IMT agreement
3	Mahakali Irrigation System (MIS) Stage-2, Targeted Area: 6500 Ha	070/071 (013/014)	564.00	250.0/2500	1,000,000.00	840,645.00	84.00	ISF collection was reduced due to insufficient supply of water in the canal systems
		071/072 (014/015)	564.00	250.0/2500	700,000.00	162549.00	23.20	ISF collection was reduced due to insufficient supply of water in the canal systems
		072/073 (015/016)	564.00	250.0/2500	700,000.00	448893		May 2016 (Increased)
		073/074 (016/017)	564.00	350.0/3537	1,200,000.00			Present ISF collection rate and targeted amount are as per IMT agreement

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S.N.	Name of the Irrigation System	Fiscal Year	Targeted ISF Collection Rate Per Year per Ha as per IMT agreement (Rs)	Present ISF Collection Rate per Year (Rs) per Ha	Targeted ISF Collection Amount (Rs) (Annual)	Collected ISF Amount (Rs) (Annual)	Progress %	Remarks
		074/075 (017/018)	564.00	450.0/4500	2,100,000.00			Present ISF collection rate and targeted amount are as per IMT agreement
		075/076 (018/019)	564.00	564.0/6500	3,666,000.00			Present ISF collection rate and targeted amount are as per IMT agreement

Annex-3: ESI Works (Additional Financing)

Annex 3.1: Infrastructure Development Status in Narayani IS Block 2

S.N.	Contract no.	Name of Works	Estimated Amount Rs	Contract Amount RS	Paid Amount RS	Progress %	Remarks
1	IWRMP-AF/DOI/W/NCB-78/Parsa	Construction /Maintenance of Canal Structures and protection works of MSC,SSC1 to SSC 8 of BLOCK 2(NIS), Parsa	40792876.21	26811873.7	Ongoing		
2	IWRMP/AF/DOI/W/NCD-79/Parsa	Construction /Maintenance of Canal Structures and protection works of BSC 1, 1A,2,3, canal road improvement of MSC, BSC 2, 3, 4, 5 of BLOCK 2 (NIS) Parsa.	54337448.72	32233414.88	Ongoing		
3	IWRMP/AF/DOI/W/NCD-80/Parsa	Construction/ Maintenance of canal structures and protection works of BSC 4,5,6, of BLOCK 2 (NIS) PARSA	37362697.54	24344815.99	Ongoing		
4	WUA Payable Part						NA
5	WUA contribution Part						NA
	Total RS						

Annex 3.2:
Infrastructure Development Status in Mahakali Irrigation System Phase-2 (Kanchanpur)

S.No.	Name of On-going Projects	Major Activities	Estimated Amount RS	Contract Amount RS	Paid Amount RS	Physical Progress %	Remarks
1	World Bank Part (ESI)						
i)	IWRPM-AF/DOI/W/NCB-81	Construction of different canal structures and service road improvement works (Block 5)	82,943,224.11	48,622,369.06	ongoing	35	
ii)	IWRPM-AF/DOI/W/NCB-82	Construction of different canal structures and service road improvement works (Block 6)	82,711,540.10	56,577,582.99	ongoing	30	
iii)	IWRPM-AF/DOI/W/NCB-83	Construction of different canal structures and service road improvement works (Block 7)	86,813,887.23	55,772,733.29	ongoing	32	
iv)	IWRPM-AF/DOI/W/NCB-84	Construction of different canal structures and service road improvement works (Block 8)	67,356,932.37	42,783,442.39	ongoing	40	
v)	WUA Payable Part	Canal earthworks.	24,874,476.00	24,874,476.00	ongoing		for F/Y 2072/073
			344,700,059.81	228,630,603.73	Contract Liability		
			Contingency Liability			0.00	
			Total Liability			0.00	

Annex 3.3: Infrastructure Development Status in Sunsari Morang IS (Ramgunj Branch)

S. No.	Name of On-going Projects	Major Activities	Estimated Amount RS	Contract Amount RS	Paid amount RS	Progress %	Remarks
1	World Bank Part (ESI)						
i)	Package A	Essential Structures Improvement Works of Ramgunj Irrigation System at SS11, SS11-T, SS11-T2, S10-T1, S10-T2, S10-T3, S10-T4 & S10-T5	65168854.5	45124773.6	Ongoing	60	
ii)	Package B	Essential Structures Improvement Works of Ramgunj Irrigation System at SS10A, SS10A-T1, SS10A-T2, SS10A-T3, SS10B, SS10B-T1, SS10B-T2 & SS10B-T3	67941625.01	42557965.3	Ongoing	85	
iii)	Package C	Essential Structures Improvement Works of Ramgunj Irrigation System at SS10C, SS10C-T1, SS10C-T2, S10D, SS10D-T1, SS10D-T2, SS10D-T3, SS10E-SS10E-T1 & SS10-T2	78308164.36	51922329.14	Ongoing	45	
iv)	Package D	Essential Structures Improvement Works of Ramgunj Irrigation System at S10 & S10-T6	62312929.97	40945759.06	Ongoing	70	
v)	IWRMP/AF/Do I/W/NCB-89SMIP	Office Building Construction Works at Ramgunj	7428300.00	7045770.11	Ongoing	65	
vi)	WUA Payable Part	Canal Reshaping and Desilting works, S10B-T3	13,660,158.45	5959594.81	Ongoing	90	Contract 2072-07-23
vii)	WUA Contribution Part	Canal Reshaping and Desilting works, S10-T1, T2,T4,T6, SS10A-T1,T3, SS10B-T2, SS10C-T2, SS10D-T3 & SS10E-T1 of Ramgunj Secondary Canal	27,508,838.63	27508838.63	Ongoing	60	Contract 2072-07-23
	Total Estimate 322328870.92						
	Total Contract- Without WUA Part 221075030.66						

Annex-4: Process Status of IMT Sub-Projects (September 2015)

Irrigation Systems	Responsible Agency/Status	Kankai IS	Sunsari Morang IS		Narayani IS		Mahakali IS	
		Whole System	Sitagunj SC	Ramgunj SC	Block 2	Block 8	Stage I Kanchanpur	Stage 2 Kanchanpur
Command Area (ha) ESI Works	23,100 ha ESI	7,000	8,000	6800	3000	3000	5100	6500
No of WUAs -7	Total 7 WUA	1	1	1	1	1	1	1
Step-3: WUA consultation (First and Second)	Status	Completed	Completed	completed	Completed	Completed	Completed	Completed
	Responsible Agency	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA
Step-4: Basic Information collection through RA method	Status	Completed	Completed	completed	Completed	Completed	Completed	Completed
	Responsible Agency	SMU / OPD	OPD/SMU	SMU / OPD	OPD/SMU	SMU / OPD	OPD/SMU	SMU / OPD
Step-5: ESI prioritization and estimate	Status	Completed	Completed	completed	Completed	Completed	Completed	Completed
	Responsible Agency	SMU/WUA	SMU/WUA	SMU/WUA	SMU/WUA	SMU/WUA	SMU/WUA	SMU/WUA
Step-6: Preparation of the draft IMT Agreement Document	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
	OPD/SMU/Sahara, Nepal	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/OPD/SMU / Sahara, Nepal	WUA/SMU/TA
Step-7: Third consultation with central WUA and General Assembly	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
	OPD/SMU/Sahara, Nepal	WUA/OPD/SMU/TA/ Sahara, Nepal	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	WUA/SMU/TA	OPD/SMU/WUA Sahara, Nepal	WUA/SMU/TA
Step-8: IMT Agreement Document signing by WUA and DOI	Status	Completed	Completed	Completed	Completed	Completed	Completed	Completed
	Responsible Agency	OPD/SMU/OPD/SMU/WUA	OPD/SMU/WUA	OPD/SMU/WUA	OPD/SMU/WUA	OPD/SMU/WUA	OPD/SMU/WUA	OPD/SMU/WUA
Step-9: Institution development	Status	Almost complete	In Progress	ongoing	ongoing	ongoing	Almost complete	ongoing
	Responsible	SMU	SMU	SMU	SMU	SMU	SMU	

	Agency							
Step-10: ESI implementation	Status	Completed	Completed	ongoing	ongoing	Completed	Completed	ongoing
	Responsible Agency	OPD/SMU/Sahara, Nepal	SMU / TA	SMU / TA	SMU / TA	SMU / TA	SMU / TA	SMU / TA
Step-11: Water management program implementation	Status	On going	On going	ongoing	ongoing	On going	On going	ongoing
	Responsible Agency	OPD/SMU/TA	OPD/SMU/TA	OPD/SMU/TA	OPD/SMU/TA	OPD/SMU/TA	OPD/SMU/TA	OPD/SMU/TA
Step-12: Management responsibility transfer to WUA	Status	No	No	No	No	No	No	No
	Responsible Agency	/OPD?SMU / WUA	OPD?SMU / WUA	OPD?SMU / WUA	OPD?SMU / WUA	OPD?SMU / WUA	OPD?SMU / WUA	OPD?SMU / WUA
Step-13: Performance evaluation of irrigation system and WUA	Status	Completed ?	Completed ?	No	No	Completed?	Completed ?	No
	Responsible Agency	SMU/OPD	SMU/OPD	SMU/OPD	SMU/OPD	SMU/OPD	SMU/OPD	SMU/OPD
Step-14: Exit Plan for WUA sustainability (wrap up program, WUA support linkages etc)	Status	No	No	No	No	No	No	No
	Responsible Agency	SMU?TA	SMU?TA	SMU?TA	SMU?TA	SMU?TA	SMU?TA	SMU?TA

Annex 5A: List of Trainings and Institutional Development Activities (Original Scope Sub-projects)

Project: KIS

S.N.	Subjects	Target Groups	Participants			Venue	Date	Resource Persons
			Female	Male	Total			
KIS: Training Activities								
1.	Orientation workshop on IMTP (II packages)	WUA, SMU	-	660	660	Panchgachhi, other sites	2009/10	OPD, SMU, SAHARA
2.	Office management and record keeping training (4 packages)	WUA	-	100	100	Panchgachhi, other sites	2009/10	
3.	Orientation on ISF collection, Inventory collection (7 packages)	WUA	-	175	175	Panchgachhi, other sites	2009/10	
4.	Participatory monitoring and evaluation (2 days)	WUA	-	-	-	Panchgachhi, other sites	2009/10	
5.	Orientation on IMT program (WUA S0 to S16)	WUA, Div. staff				Panchgachhi	2010/11	
6.	Resource collection and mobilization (6 packages)	WUA	-	180	180	Panchgachhi, Topgachi & others	2010/11	
7.	Study and observation tour program	WUA	04	26	30	MIS & Panchakanya	2010/11	
8.	Constr. management & quality control (3 pack)	WUA	08	79	87	Panchgachhi	2010/11	
9.	Office and record management (2 packages)	WUA	04	50	54	Panchgachhi	2010/11	
10.	Computer basic training	WUA	01	07	8	Shivgunj	2010/11	
11.	Basic account record keeping (4 packages), 2 days	WUA	11	89	100	Panchgachhi & other places	19-26/4/2011	Sr. Accountant, WUA member
12.	ISF collection and management (4 packages), 3 days	WUAs	19	83	102	Panchgachhi & other places	4-21/5/2011	AE, AE, TA-B
13.	Mid-term progress review workshop	WUA	02	44	46	Panchgachhi	19/5/2011	A, AEs
14.	Women empowerment	WUA	22	-	22	Panchgachhi	19-21/4/2011	NGO, WDO, TA-B, AO
15.	Workshop training on income generation women members of WUA	WUA	35	-	35	Panchgachhi	12-14/4/2011	NGO, WDO, TA-B, AO
16.	Gender awareness & women's participation (3 packages)	WUA	75	-	75	Lumle, Pokhara	12-14/6/2011	NGO, WDO, TA-B, AO
17.	Study & exposure visit	WUA	05	25	30	Chhattish Mauja, Rupandehi	19-22/6/2011	AE, AO

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18.	Structure calibration training	SMU – 7 WUA - 10	-	17	17	KIS, Jhapa	14-18/7/2010	TA-B (esp. Dr. KC Prasad)
19.	Study and exposure visit (4 days)	WUA female members	30	-	30	Chhattish Mauja, Rupandehi	19-22 June, 2011	SMU
20.	Parcellary map preparation & review training	SMU	-	4	4	KIS, Jhapa	25-27/7/2010	TA-B (esp. Dr. KC Prasad)
21.	Account record keeping (5 packages)	WUA – TC	18	104	122	Panchgachhi, Mahabhara & Topgachhi	14-26/3/2012	Acc. officer, EIDD, TA-B
22.	Off season vegetables farming (4 packages)	WUA, female	105	-	105	Panchgachhi	18-21/1/2012	DAD staff, TA-B
23.	Construction management and quality control (2 packages & 3 days for each package)	WUA members	09	48	57	Panchgachhi and Baigundhara	07-09 & 27-29 Feb, 2012	Irrigation engineer, SMU & TA-B
24.	Two days Workshop on WUA Capacity Development and Orientation Related to Irrigation Management Transfer (IMT)	WUA executive members	08	32	40	Panchgachhi	27-28 January, 2012	OPD & SMU
25.	SEMP preparation and review	SMU	-	-	-	KIS, Jhapa	January 2010 to January 2011	OPD and subject matter experts
26.	One day training of fertilizer management	WUA and farmers	184	176	360	WUA office & field	May 28 - June 10, 2012	AO, Agriculture – staff (These trainings are conducted from ICWMP)
27.	Irrigation Service Fee collection	WUA – Sec – TC – Level	10	64	74	WUA Office	11 – 16 June 2012	TA, AO, SMU staff
28.	Training of Trainers (TOT) Training	WUA	4	20	24	Bhojpur Hotel, Damak Jhapa	15 -27 June 2012	IMD, SMU, OPD, TA-B
29.	Study Tour (Central WUA)	WUA	4	24	28	Different Districts	5 – 8 July, 2012	Study Tour Guide - AO
30.	“Review and Interaction” workshop on Present Status of IWRMP/IMT and WUA of KIS	WUA	4	25	29	Bhojpur Hotel, Damak Jhapa	5-6, December, 2012	OPD, EIDD #1 Jhapa, TA-B
31.	“On and Off Farm Water Management”	Gate Operators, Dhalpas, and Supervisors	3	21	24	Panchgachhi, Jhapa	26-28 December, 2012	WUA, SMU, TA-B
32.	“Water Users Organization Management, Resource Collection & Mobilization”	WUA	4	25	29	Panchgachhi, Jhapa	1-2, January, 2013, 2012	WUA TOT Trainees, SMU, TA-B
33.	“On and Off Farm Water Management”	WUA main committee	4	27	31	Panchgachhi, Jhapa	11-13 January, 2013	SMU, TA-B

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34.	"On and Off Farm Water Management"	WUA branch committees	1	21	22	Panchgachi, Jhapa	5-7 February, 2013	SMU, TA-B
35.	"ISF Collection and Management"	WUA branch & tertiary com.	13	68	81	Panchgachi, Jhapa	25 April-03 May, 2013	WUA TOT Trainees
36.	"Increasing Awareness" (Chetana Abhibridhi)	WUA branch & tertiary com.	87	153	240	8 packages at various locations within KIS	07-16 May, 2013	WUA TOT Trainees
37	ISF collection and management (Two packages)	WUA branch & tertiary com.	21	29	50	Baigundhura, Jhapa	01-02 June, 2013	WUA TOT Trainees
38	On-the-job training by TA-B staff	SMU and WUA	many	many	many	various locations	various and ongoing	TA-B National and International staff
39	Study Tour (Central WUA)	WUA members	5	25	30	Mahakali Irrigation Systems	30 May-4 June, 2014	SMU staff and WUA members of MIS
40	Structural calibration and water scheduling / COP for monsoon crop season (4 packages)	WUA BC/TC members and dhalpas	13	100	113	Panchgachi, Jhapa	22 - 26 May, 2014	SMU staff and TA
41	Leadership development (3 packages)	WUA branch committees	12	78	90	Panchgachi, Jhapa	3-11 February, 2015	WUA TOT Trainees
42	Canal repair, maintenance and construction management	WUA branch committees	02	28	30	Panchgachi, Jhapa	5-6 February, 2015	WUA TOT Trainees
43	Canal operation schedule development	WUA branch committees	04	26	30	Panchgachi, Jhapa	7-8 February, 2015	WUA TOT Trainees
44	Leadership development (2 packages)	WUA branch & tertiary com	14	47	61	Panchgachi, Jhapa	14-19 April, 2015	WUA TOT Trainees
45	Basic account record keeping (8 Packages)	WUA branch & tertiary com.	58	182	240	Panchgachi, Jhapa	17 May-04 June, 2015	WUA TOT Trainees & account officer
46	Leadership and Good Governance Training	WUA Members All Chairmen	3	21	24	Panchigachi, Jhapa	22 Dec to 25 Dec	WUA, TOT Padam Poudel, Dev Kumar Basnet and Bed Nidhi Adhakari, SAO-Gopal Poudel, TA-IDS-2
47	Conflict Management Training	WUA Vice Chairmen	4	23	27	Panchigachi, Jhapa	27 Dec-29 Dec	WUA, TOT- Padam Poudel, Dev Kumar Basnet, SAO Gopal Poudel and TA-IDS-2
48	IMT Review Workshop	Kankai Irrigation System		22	22	Panchigachi, Jhapa	25 Nov 2015	OPD, SMU, TA-B
49	M&E Training	Kankai Irrigation System		25	25	Panchigachi, Jhapa	April 3 to 4, 2016	SMU, TA-B
50	Observation Tour	Kankai Irrigation System	5	27	32	KIS to Different Irrigation System	May 15 to 21, 2016	SMU, WUA

Project: SIS (SMIS)

S.N.	Subjects	Target Groups	Participants			Venue	Date	Resource Persons
			Female	Male	Total			
SMIS: Training Activities								
1	First consultation and mass meeting on IMT orientation	WUCC , WUA members & Benef. farmers	-	-	1000	SIS sites	8 June-23 Dec, 2009	SAHARA Nepal, SMU, OPD
2	Second consultation on IMT orientation	WUCC , WUA members & Benef. farmers	-	-	754	SIS sites	25 April-19 May, 2010	Sahara-Nepal, SMU , OPD, TA-B
3	Third consultation on IMT orientation	WUCC , WUA members & Benef. farmers	-	-	268	Duhabi	22 August, 2010	SMU , OPD, TA-B
4	IMT Orientation to WUCC members and SMU staff	WUCC – SMU	-	12	12	Duhabi – project office	20-24/4/2010	OPD Central Staff , TA-B (DTL, IDS, IE),
5	Orientation training to WUCC members on Action Plan Preparation	WUCC -	-	13	13	Aurabani	5/5/2010	OPD Central Staff, TA-B
6	Information Dissemination Workshop related to IMT of IWRMP-B (4 packages x 1 day for	WUA chairman and Secretary	-	-	148	Duhabi	5-8 July, 2010	OPD, SMU , TA-B
7	One day Orientation training on IMT (6 packages)	WUA members	-	-	210	SIS sites	3-8 July, 2010	SMU
8	Introductory workshop related to IMT of IWRMP-B	WUCC members & SMU	-	-	20	Biratnagar	19-21 July, 2010	OPD, TA-B
9	2 days training on ISF collection and management (SS 9 C - D)	WUA	16	17	33	Chandbela VDC office	26-27/6/2011	TA-B (IDS), OPD Central Staff (Soc.)
10	Construction management & quality control (2 days)	WUCC & WUC	18	15	33	Chandbela	28-29/6/2011	TA-B, SMU engineers
11	Observation tour to WUA members	WUCC/BCC	1	29	30	KIS	July 2011	SMU
12	7 days training on structure calibration	SMU staff	-	13	13	Project sites	20-28/8/2011	TA-B (esp. Dr. KC Prasad)
13	Structure calibration training	SMU	-	7	7	Project sites	26 Sept – 1 Oct, 2011	TA-B (esp. Dr. KC Prasad)
14	Construction management and quality control (2 packages & 2 days for each package)	WUA members	16	54	70	Aurabani	09-10 January, 2012 & 09-10 Feb. 2012	SMU & TA-B
15	Two days Workshop on WUA Capacity Development and Orientation Related to Irrigation Management Transfer (IMT)	WUA executive committee members	-	26	26	Aurabani	30-31 January, 2012	OPD, SMU & TA-B
16	SEMP preparation and review	SMU				SMIP & SIS sites	January 2011 to January, 2012	OPD and subject matter experts
17	Account record keeping	WUA	-	35	35	Aurabani	20 – 21 June, 2012	SMU staff
18	ISF collection & management	WUA	-	35	35	Aurabani	22 – 23 June, 2012	SMU staff
19	Office management	WUA	-	35	35	Aurabani	26 – 27 June, 2012	
20	“On and Off Farm Water Management”	WUA	01	29	30	Aurabani	22-24 January, 2013	SMU, WUA, TA-B

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21	"Review and Interaction" workshop on Present Status of IWRMP/IMT and WUA of SMIS	WUA	1	25	26	Moon Hotel, Biratnagar	11-12, March, 2013	OPD, SMU, WUA, TA-B
22	"Awareness Creation in Collection of ISF"	WUA	NA	NA	NA	WUA Office	06-10 May, 2013	National WUA Federation, WUA
23	"Facilitator Skill Development and Training Management" (Training of Trainers)	WUA	5	20	25	Green heaven Hotel, Bhedetar	30 May-10 June, 2013	OPD, SMU, WUA, TA-B
24	ISF Collection and Management (2 packages)	WUA main and branch committees	0	50	50	Aurabani	19-22 June, 2013	SMU, WUA, TA-B
25	ISF collection and management (2 packages)	WUA members and leading farmers	-	80	80	Aurabani, Sunsari	4-7 May, 2014	SMU staff, TOT resource persons and TA-B
26	Water management (2 packages)	WUA members and leading farmers	-	80	80	Aurabani, Sunsari	8-11 May, 2014	SMU staff, TOT resource persons and TA-B
27	Preparation of action plan (5 packages)	WUA members	-	150	150	Various sites	4-13 May, 2014	TOT resource persons and TA
28	Institutional & Water Management capability development of WUA 5 packages	WUA members and Leading farmers	48	97	145	Various site	27 May - 16 June, 2014	TOT Resource persons and TA-B
29	Structural calibration and water scheduling / COP for monsoon crop season (4 packages)	WUA BC/TC members and dhalpas	4	136	140	Aurabani, Sunsari	8 - 11 July, 2014	SMU staff and TA-B
30	Awareness creation on organization, resource and irrigation system management (8 packages)	WUA branch & tertiary com.	60	180	240	Aurabani, Sunsari	14-29 February, 2015	WUA TOT Trainees
31	IMT Review Workshop	WUA Members	1	24	25		20 Feb-2016	OPD, SMU, TA-B

Project: NIS

Project: NIS								
S.N.	Subjects	Target Groups	Participants			Venue	Date	Resource Persons
			Female	Male	Total			
NIS: Training Activities								
1	Social Mobilization Process in IMT at block-8	WUA members & beneficiary farmers	-	-	456	Block-8 sites	07-17 June, 2009	Information Dissemination Initiative Consultancy, KTM
2	Social Mobilization Process in IMT at block-2	WUA members & beneficiary farmers	-	-	318	Block-2 sites	05-16 June, 2009	Information Dissemination Initiative Consultancy, KTM
3	Third consultation on IMT at Block-8	WUA members & beneficiary farmers	-	-	135	Matiarwa, Bara	17 May, 2010	SMU, TA-B
4	Third consultation on IMT at Block-2	WUA members & beneficiary farmers	-	-	153	Mudali, Parsa	04 June, 2010	SMU, TA-B
5	Study tour to WUA members of Block – 8, (8 NIS staff)	WUA staff of SMU	7 -	23 8 NIS	30	Sikta IP, Bhairah-wa-Lumbini GWP Marchwar lift Irr, Pathariya Irr. MIP-III, MIS, BabaI IP, Praganna IS	10-14/03/2068 (24-28 June 2011)	Project personnel
6	Calibration of structures training (AE & SMU & staff), 9 days	SMU staff	-	13	13	NIS – sites	7-17/8/2011	TA-B (esp. Dr. KC Prasad)
7	2 days training workshop on WUA capacity building	WUA & staffs of NIS	3 -	23 -	26 -	NIS office	27-28 Dec, 2011	OPD Central Staff (SDE, SOC, FO)
8	Study tour to farmers’ group of Block – 8, (NIS staff) in different agriculture research centre	Farmers gr. of Block – 8, NIS	-	30	30	Paripatle, Dhankutta, Ithari and Naktajhijh	5- 8, July,2011	NIS personnel
9	Workshop/ Discussion on farmer’s group tour in five groups of farmers	Farmers gr. of block- 2 & 8	13	27	40	NIS office	10- 14, July, 2011	NIS personnel

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10	Leadership development and office management – 4 package	WUA / B-8	43	75	118	Field	13 – 16 & 25 – 28 June, 2012	SMU report
11	Leadership development and office management – 4 package	WUA / B-2	43	77	120	Field	4 – 11 May, 2012	SMU report
12	IWRMP orientation of SMU	SMU staff	12	-	12	Office	15 June 2012	TA-B staff
13	On-the-job training by TA-B staff	SMU and WUA	many	many	many	various locations	various	TA-B National and International staff
14	Study Tour & Observation Tour WUA – Block#8, NIS	WUA Representatives	3	23	26	SMIS, KIS Tour	10-12 May, 2013	SMU, WUA
15	Review on study & Interaction	WUA	3	16	19	NIS	5 June, 2013	SMU, TA-B
16	Training of Trainers	WUA members	4	20	24	Narayan Ghat	Dec 16-27, 2013	SMU, OPD, IMD, TA-B
17	Institutional & WM Capacity Dev. of WUA	WUA & farmers	48	97	145	Blocks (8 sites)	27 May-16 June '14	TOT Resource Spec. & TA
18	Awareness creation on organization, resources and irrigation system management (8 Packages)	WUA Branch and tertiary committee members	61	179	240	Pheta and other sites	01-16 April, 2015	WUA ToT trainees
19	IMT Review Workshop	WUA Members	2	WUA-20 SMU-7	29	Birgunj	19 Feb-2016	OPD, TA-B

Project: MIS

S.N.	Subjects	Target Groups	Participants			Venue	Date	Resource Persons
			Female	Male	Total			
MIS: Training Activities								
1.	Orientation Training to SMU staff of consultation process in IMT	SMU	-	11	11	MIS Office	17-22/2/2010	TA-B (IDS), DTL, OPD
2.	Orientation to WUA Central Committee members and MIS staff on WUA constitution development	WUA members	-	17	17	MIS Office	23-29/3/2010	TA-B, DTL, ID
3.	5 packages of women participation in irrigation, water management, ISF collection	Women members, WUA	26	100	126	Five Block Areas	19 June – 4 July, 2011	SMU, TA-B, DOA
4.	Calibration of Irrigation flow measurement of structure, MIS SMU staff	SMU staff	-	7	7	Project Sites	24-31 July 2011	TA-B (esp. Dr. KC Prasad)
5.	Method of developing COP	SMU/KIS/MIS	-	11	11	MIS Project	11-15 September, 2011	TA-B (esp. Dr. KC Prasad)
6.	One day orientation training on ICWMP (for block A, B, C, D)	WUA	-	-	125	MIS Block WUAs	10-14 March, 2011	SMU, DOA
7.	Study tour for WUA members	WUA	-	-	30	Syanja, Palpa, Pokhara	28 April – 04 May, 2011	SMU, ICWMP Farmer Group, WUA
8.	2 days training on construction management and quality control	WUA	7	28	35	Project sites	9-10/1/2012	SMU, TA-B
9.	2 days training workshop on WUA capacity building	WUA	8	15	23	MIS – project office	8-10 Jan, 2012	OPD (central staff SDE & SOC)
10.	5 day DOI staff capacity development training workshop	SMU and other DOI field technicians	2	24	26	MIMD #8 Training Hall	2-6 April, 2012	MIMD Chief, OPD (central staff SDE & SOC)
11.	2 days training workshop on orientation for newly elected WUA representatives of Stage-I	WUA	5	23	28	Hotel Sweet Dreams	29-30 April, 2012	MIMD Chief, OPD (central staff SDE & SOC)
12.	Basic Computer Skills course	WUA	10	4	14	Project	90 hours over 1 mo.	External
13.	Financial Management	WUA	21	8	29	Project	7-9 June 2012	External
14.	Training of Trainers	WUA	11	14	25	Bidhya Hotel, Dhangadi	9-20 December 2012	TA-B, IMD, SMU, OPD (central staff SDE & SOC)
15.	Refresher & Interaction Program for WUA Representation	WUA	4	21	25	Dadeldhura Raeno Hotel	10-12 April, 2013	OPD-SDE, Sociologist, SMU
16.	Financial Management & Record Keeping	WUA	12	28	40	MIS	12-14 May, 2013	SMU, WUA
17.	Interaction Program for Capacity Development between tertiary chairperson (by Blocks – day)	WUA Tertiary Blocks	60	220	280	Hotel New Anand Kanchanpur	5-9 June, 2013	SMU, WUA

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18	Institutional & Water Management capability development of WUA 5 packages	WUA members and Leading farmers	64	95	159	Various site	4-9 may, 2014	TOT Resource persons and TA-B60
19	On-the-job training by TA-B staff	SMU and WUA	many	many	many	various locations	various and ongoing	TA-B National and International staff
20	Awareness creation on organization, resource and irrigation system management (15 Packages)	WUA Branch and tertiary committee members	178	272	450	A,B,C and D bocks	29March-05 April, 2015	WUA ToT trainees
21	IMT Review Workshop	WUA Members	4	19	23	IMD Office, Mahendranagar	04 November 2015	OPD, SMU, TA-B
22	Record Keeping 13 Event	Block Committee, CP, SCC of TC Committee	169	278	447	Office of the Block Committees	25 Jan to March 2016	SMU, TOT, TA-B
23	Leadership Development and Good Governance	Executives Members of WURC and Block	12	23	35	IMD Office, Mahendranagar	27 to 19 April 2016	SMU, TOT, TA-B
24	Canal Operation Plan Training	Chairperson of TC, Gate Operator and Selected Member	38	181	219	Different places of command area	17 to 25 May 2016	SMU, TOT, TA-B

Annex-5B: Additional Financing Sub-Projects

A. Sub Systems RIS/SMIS

S.N	Activities	Target Groups	Target Number	Completed Number	Participants			Date	Resource Persons
					Male	Female	Total		
1	IMT Orientation Program	SMU and Ex Member of WUA	1	1	23	2	25	19 Feb 2016	OPD, IWRMP-TA-B
2	Construction Management and Quality Control	WUA, SMU and Contractor	1	1	37	2	39	March 2016	TA-TEAM, SMU
3	Awareness and Capacity Development	CP of Water course and executive member of main committee	30	8	239	-	239	April 2016	SMU, TA-B
4	Observation Tour	Executive members of WUA	1	1	18	5	23	May 27 to June 3-2016	SMU

B. Sub Systems NIS -2

S.N	Activities	Target Groups	Target Number	Completed Number	Participants			Date	Resource Persons
					Male	Female	Total		
1	IMT Orientation Program	SMU and Ex Member of WUA	1	1	34	5	39	10 Feb 2016	OPD, IWRMP-TA-B
2	Trainers of Training (TOT)	Selected members of WUA	1	1	17	3	20	May 09-20, 2016	IMD/OPD, SMU and TA-TEAM
3	Orientation on Annual Plan Preparation	WUA Member of main committee	1	1	34	5	39	March 2016	SMU, TA-B
4	Construction Management and Quality Control	WUA members of BC, TC	11	1	27	-	27	May 27 to 29 2016	SMU, TA-B

C. Sub System MIS Phase -II

S.N	Activities	Target Groups	Target Number	Completed Number	Participants			Date	Resource Persons
					Male	Female	Total		
1	IMT Orientation Program	SMU and Ex Member of WUA	1	1	25	2	27	25 Jan 2016	OPD, IWRMP-TA-B
2	Trainers of Training (TOT)	Selected members of WUA	1	1	16	4	20	Dec 27- 2015 to Jan 07-2016	IMD/OPD, SMU and TA-TEAM