



Government of Nepal
 Ministry of Irrigation
 Department of Irrigation
 Irrigation and Water Resources Management Project (IWRMP)
 Jawalakhel, Lalitpur



THIRD TRIMESTER PROGRESS REPORT
(September through December, 2010)

TA CONSULTANT FOR COMPONENT 'B'
Irrigation Management Transfer
 Submitted to: Office of Project Director, IWRMP

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SHELADIA Associates, Inc., USA
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MULTI Disciplinary Consultants (P.) Ltd., Nepal



in association with



Full Bright Consultancy (P.) Ltd. and ERMC (P.) Ltd.



Project Office (Central): DOI-Building, Jawalakhel, Lalitpur, Nepal

P.O. Box No: 5720, Kathmandu, Nepal,

Phone: 5541840/5535382 (Ex. 112) Fax No. 977-1-5541840

Email: iwrmpstab@multinepal.com.np, iwrmpstab@gmail.com

5204291

Site Offices:

1.KIS Premise, Jhapa (9752-602367)

2.SMIP Premise, Biratnagar (9752-000280)

3.NIS Premise, Parsa

4.MIS Premise, Mahendranagar(099-

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Abbreviations and Acronyms

ADB	: Asian Development Bank
AICC	: Agriculture and Irrigation
AMIS	: Agency- Managed Irrigation System
AO	: Association Organizer (Social Worker)
BOQ	: Bill of Quantities
BSC	: Branch Secondary Canal
CAS	: Country Assistance Strategy
CBO	: Community Based Organization
CCC	: Central Coordination Committee
DAC	: District Appraisal Committee
DADO	: District Agriculture Development Office
DCC	: District Coordination Committee
DDC	: District Development Committee
DDG	: Deputy Director General
DG	: Director General
DHM	: Department of Hydrology and Meteorology
DIO	: District Irrigation Office
DOA	: Department of Agriculture
DOI	: Department of Irrigation
DTT	: District Technical Team
DWRC	: District Water Resources Committee
EIA	: Environmental Impact Assessment
EIRR	: Economic Internal Rate of Return
EOP	: End of Project
ESI	: Essential Structure Improvements
ESMF	: Environment and Social Management Framework
EU	: European Union
FAO	: Food and Agriculture Organization
FAR	: Financial
FG	: Farmer's Group
FM	: Financial Management
FMIS	: Farmer Managed Irrigation System
FWDR	: Far Western Development Region
FWUA	: Federation of Water Users Associations
GDP	: Gross Domestic Product
GFO	: Groundwater Field Office
GO	: Group Organizer
GON	: Government of Nepal
GWFO	: Ground Water Field Office
Ha	: Hectare
HLPSC	: High Level Policy Steering Committee
ICB	: International Competitive Bidding
ICM	: Integrated Crop Management
ICR	: Implementation, Completion and Results
ICR	: Implementation Completion Report
ICWM	: Integrated Crop and Water Management
ICWMP	: Integrated Crop and Water Management Program
IDA	: International Development Association

IDD/IDSD	: Irrigation Development Division/Irrigation Development Sub Division
IDF	: Institutional Development Fund
IDT	: Institutional Development Team
IEE	: Internal Environmental examination
IMD	: Irrigation Management Division
IMT	: Irrigation Management Transfer
IP	: Indigenous People
IPDP	: Indigenous People Development Plan
IPM	: Integrated Pest Management
IPNM	: Integrated Pest and Nutrient Management
IRD	: Integrated Rural Development Program
ISE	: Initial Social Examination
ISEA	: Integrated Social and Environment Assessment
ISMU	: Irrigation System Management Unit
ISF	: Irrigation Service Fee
ISN	: Interim Strategy Note
IWMI	: International Water Management Institute
IWRMP	: Irrigation and Water Resources Management Project
IWRP	: Integrated Water Resource Policy
JICA	: Japan International Cooperation Agency
JT/JTA	: Junior Technician / Assistant Junior Technician
LSGP/A	: Local Self Governance Policy/Act
M&E	: Monitoring and Evaluation
MASSCOT	: Mapping System and Services for Canal Operation Technique
MDG	: Millennium Development Goal
MIS	: Management Information System
MOAC	: Ministry of Agriculture and Cooperatives
MOF	: Ministry of Finance
MOWR	: Ministry of Water Resources
MSC	: Main Secondary Canal
MTA	: Management Transfer Assistance
MTR	: Mid Term Review
NBD	: National Bidding Document
NGO	: Non Government Organization
NIDV	: Nepal Irrigation Development Vision
NISP	: Nepal Irrigation Sector Project
NPC	: National Planning Commission
NSC	: National Steering Committee
NWP	: National Water Plan
NWRS	: Nepal Water Resource Strategy
NVC	: National Vigilance Centre
OCC	: Opportunity Cost of Capital
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
PBME	: Project Beneficiary Monitoring & Evaluation
PIC	: Project Implementation Committee

PICC	: Project Implementation and Coordination Committee
PIM	: Project Implementation Manual
PIU	: Project Implementation Unit
PJM	: Participatory Joint Management
PMC	: Project Monitoring Committee
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
RPSU	: Regional Project Support Unit
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
SIL	: Specific Investment Loan
SMU	: Sub-project Management Unit
SSC	: Sub-Secondary Canal
STW	: Shallow Tube Well
TA	: Technical Assistance
TV	: Television
USAID	: United States Agency for International Development
VC	: Vice Chairman
VDC	: Village Development Committee
VCDF	: Vulnerable Communities Development Framework
VG	: Vulnerable Groups
WB	: World Bank
WRIC	: Water Resources Information Centre
WUA	: Water Users Association
WUAF	: Water Users Associations Federation
WUCC	: Water Users Coordination Committee

Project Data

Name of the project	Irrigation and Water Resources Management Project
Total cost of the project	\$ 65 million
Donor	The World Bank
Grant assistance of the World Bank (IDA)	\$ 50 million
Investment of GON	\$ 10 million
WUAs' contribution	\$ 5 million
Project commencement date	March 01, 2008
Project completion date	June 30, 2013
Components of the project	Four, namely: A, B, C and D
Components of this Report	Component B
Scope of Component B	Irrigation Management Transfer and essential Structural Improvements within selected sub-areas ¹ of Kankai, Sunsari Morang, Narayani and Mahakali Irrigation Systems, located within the Western, Mid-Western and Far Western Development Regions. These systems are presently under DOI Agency Management.
Total cost Component B	\$ 9.53 ² million
Grant assistance of the World Bank (IDA)	\$ 7.27 million
Investment of GON	\$ 1.82 million
WUAs' contribution	\$ 0.44 million

¹ The original scope of the IWRMP Component B included the transfer of 61,000 ha. This has recently been reduced to 33,900 ha. See Table B1 and B2.

² Recently reduced from \$11.05 million.

1 Summary

The Irrigation Water Resources Management Project (IWRMP), financed under a grant agreement of the World Bank, comprises of four components:

- 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 Component B being implemented by the Department of Irrigation (DOI).

This report is an update of progress since the previous (Mid-Term) Progress Report. Though subject repetition has been tried to be avoided, some sections may look similar to previous reports.

Notable events that have taken place since the previous Progress Report include:

- The IMT Transfer Agreement at Sunsari Morang Irrigation Project (Sitagunj Canal) was signed on November 25, 2010.
- There has been substantial progress made in preparations necessary for the IMT Agreement signing at NIS Block 8. This is detailed in Section 3 of this report.

2 Introduction

2.1 Report Format

This report mainly covers the activities (update) of the IWRMP Component B for the period from September 2010 through December 2010.

2.2 Project Areas – Map of Nepal

Figure 1, shows the map of Nepal with the areas of intervention of IWRMP Regions. Component B activities are located in large Agency-Managed Irrigation Systems in Eastern, Central and Far-Western regions. Component B (IMT) sites are indicated by the eight-pointed star symbol.

2.3 IWRMP Component B Overview

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 (AMIS)) of below capacity performance, poor O&M, low cost recovery, and inadequate maintenance funds.

Component B is working with 6³ legally empowered WUAs which are (or are intended to be) responsible for the operation and maintenance of 6 existing sub-systems within 4 AMISs. These systems/sub-systems were selected on the basis of condition of infrastructure, receptive user organizations, and relatively favourable socio-political environment. The four AMIS systems are Kankai, Sunsari Morang, Narayani, and Mahakali. These systems are located in the Terai, and the sub-systems included under Component B cover about 33,900 ha. Table B1 indicates the list of original sub-systems and related command areas, and Table B2 lists the current (revised) scope of involvement.

Table B1: Irrigation Systems/sub-systems Originally within Component B

Irrigation System	Schemes/sub-systems	IMT Sub-Project Command Area (Ha)	No. of WUA
Kankai (total system 7,000 ha)	1. Entire System	7,000	1
Sunsari Morang (total system 62,000 ha)	2. Sitagunj SC	8,000	1
	3. Ramgunj SC	7,800	1
	4. Biratnagar SC	5,000	1
Narayani (total system 37,000 ha)	5. Blocks 2 & 8,	6,000	2
	6. Blocks 1,3 & 9	8,400	3
	7. Blocks 4, 5 & 6	8,000	3
Mahakali (total system 10,800 ha)	8. Stage I	4,800	1
	9. Stage II	6,000	1
Total	9 Schemes	61,000	14

Table B2: Irrigation Systems/sub-systems Presently within Component B

Irrigation System	Schemes/sub-systems	IMT Sub-Project Command Area (Ha)	No. of WUA
Kankai (total system 7,000 ha)	1. Entire System	7,000	1
Sunsari Morang (total system 62,000 ha)	2. Sitagunj SC	8,000	1
	3. Ramgunj SC ⁴	7,800	1
Narayani (total system 37,000 ha)	4. Block 2	3,000	1
	5. Block 8	3,000	1
Mahakali (total system 10,800 ha)	6. Stage I	5,100 ⁵	1
Total	6 Schemes	33,900	6

³ Originally 14, the number has been recently reduced to 6. See Tables B1 and B2.

⁴ In the most recent set of formal discussions between the OPD and the World Bank, Ramgunj SC was not included in the list of sub-project sites for Component B. However, the OPD has indicated to the TA that they intend to include Ramgunj SC under the IWRMP Component B, with the consent of the World Bank. Therefore Ramgunj SC is included here.

⁵ The Mahakali Stage I Command Area has increased from an originally 4,800 ha due to a shift of 300 ha from Stage II Command Area.

The activities of Component B include⁶:

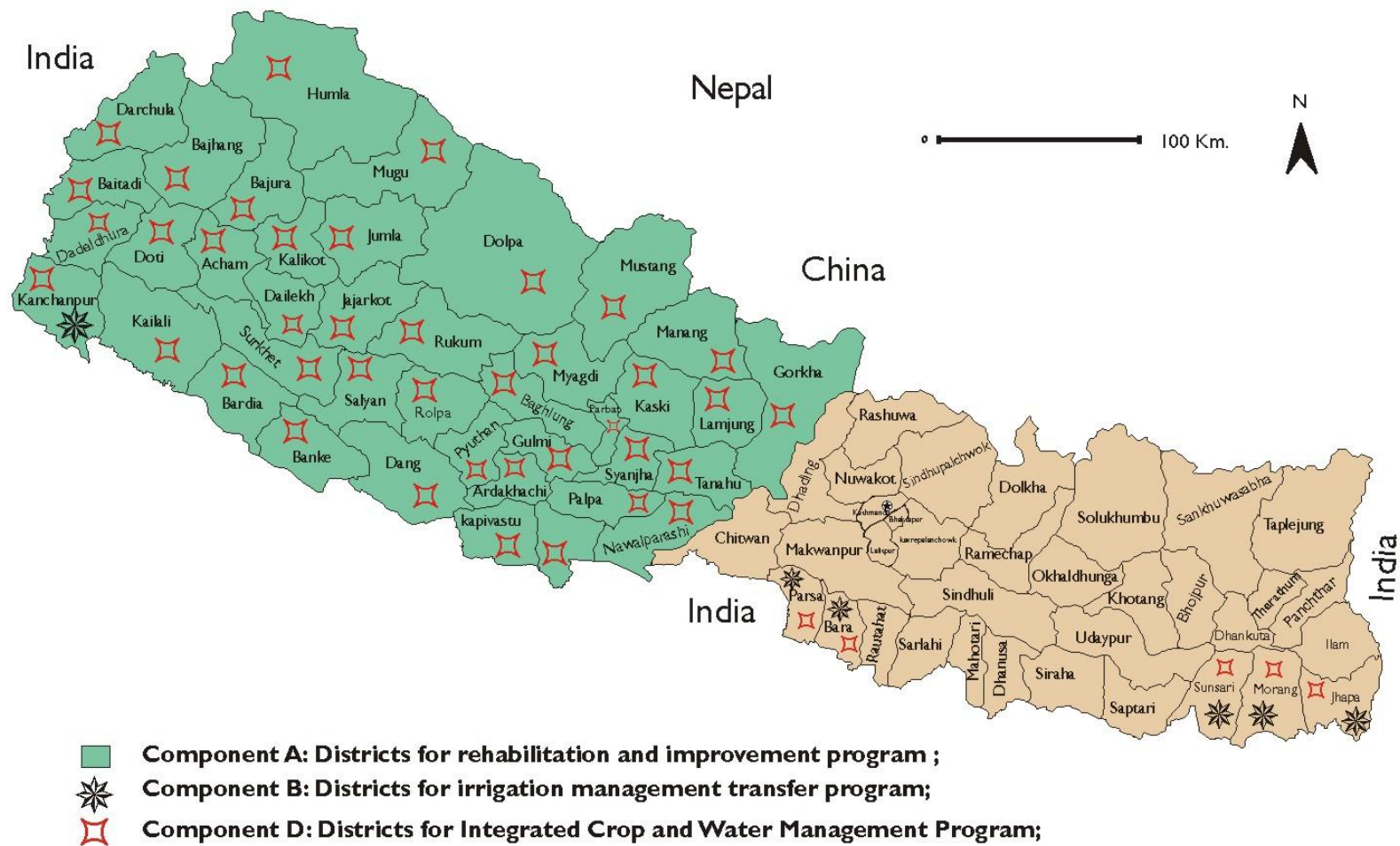
- (a) Completion/consolidation of Management Transfer Plan including streamlining and strengthening of WUAs;
- (b) Essential structural improvements;
- (c) Repair, upgrading, or procurement of buildings, information systems, transportation, and maintenance and information technology equipment;
- (d)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

The expected primary outputs of Component B are⁷:

- 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.

⁶ As per the IDA Mission report (18 – 24 September, 2009).

⁷ As per the IDA Mission report (18 – 24 September, 2009).



2.4 Institutional and Implementation Arrangement

The overall responsibilities for implementation management of the IWRMP rests with DOI, with guidance and assistance from several committees and teams. For this purpose the GON, in executing the Financial Agreement⁸, 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.

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 Water Resources, 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) **WUA or Water Users Associations:** a farmer organization with the aim of irrigation water management selected to support the planning and implementation of sub-projects.

3 Programmatic Development of Component B (Irrigation Management Transfer Reform)

Component B (Irrigation Management Transfer Reform) of IWRMP aims at improving arrangements and instruments for O&M of selected AMIS by empowering WUAs to sustainably operate, maintain and manage lower portions of the irrigation systems. The transfer of management to the WUAs means turning over governance, management, and maintenance responsibilities of the relevant portions of the irrigation systems. The DOI will continue to operate and maintain the headworks, desilting basins and, in most cases, main canals and head regulators. The WUAs will operate and maintain the transferred portions of the systems and related assets as per the legal transfer agreement guidelines.

⁸ Financial Agreement, (Irrigation and Water Resources Management Project) between NEPAL and International Development Association, January 31, 2008. GRANT NUMBER HP338-NEP.

The progress of each sub-project, and any related issues, are described below:

A. Kankai Irrigation System (KIS):

All of KIS is included within the IWRMP Component B. In Kankai, the overall progress is relatively advanced compared to other sub-projects. The IMT Agreement was signed in December, 2009. Progress since the previous reporting period is as follows:

Progress on ESI Works:

Four contract packages have been issued in KIS for structural improvements. This includes Project-funded ESI works, as well as associated DOI-funded remedial works. These are detailed below:

Contract package I:

- Works included: Secondary canals S₀ to S₇: Canal reshaping and lining, gabion protection works, village-level bridges (road and foot), pipe outlets, pipe culverts, siphon repairs, retaining walls, gate repairs, cross drainage works.
- Contractor Progress: Contractor has started works in S₃ & S₄ (canal lining works and gabion protection).
- WUA Progress: Reshaping of canals S₇, S₃, S₄ is underway.

Contract Package II:

- Works included: Secondary canals S₈ to S₁₂: gabion protection works, canal reshaping and lining, village-level bridges (road), pipe culverts, pipe outlets, road crossings, drain crossings, cross drainage structures, gate repairs and gate relocations.
- Contractor Progress: Contractor has completed 150 m of vertical lining along Canal S₁₂, foundation for additional sections of lining along additional reaches of Canal S₁₂ is underway; Foundation for lining along 300 m of Canal S₉ is underway; 200m vertical lining reinforcement placement completed and gabion protection works underway on Canal S₈; S₈- Gabion protection works on going, Boulder packing in gabion.
- WUA Progress: Reshaping of S₁₂ substantially complete (manual works remaining); Foundation of lining started and 250 m completed along Canal S₁₂; 300 m of foundation works for lining is underway along Canal S₉; 200m foundation works for lining is completed along Canal S₈.

Contract Package-III:

- Works included: Secondary canals S₁₃ to S₁₆: canal reshaping and lining, pipe outlets, pipe culverts, village-level bridges (road and foot), gate repairs, gabion protection works, road crossings, drain crossings, cross drainage structures.
- Contractor Progress : In S₁₃ + S₁₄ contractor mobilizing to start construction works.
- WUA Progress: Have initiated collection of funds for their contribution.

Contract Package-IV:

- Works included: Secondary canals S₁₇ to S₂₁: Similar to the contract packages I through III, i.e.: canal reshaping and lining, pipe outlets, pipe culverts, village-level bridges (road and foot), gate repairs, gabion protection works, road crossings, drain crossings, cross drainage structures, etc.
- Contract issued, but works not yet initiated.

- A detailed Bill of Quantities for ESI works at KIS S₁₇ and S₁₈ is shown in the attached **Annex 1**, as example of the format used.

Progress on WUA Development:

The WUA is collecting membership fee, maintenance fee and ISF at all branch and tertiary level. Collections of ISF and maintenance fee are ongoing on branches 0-16 and membership fee collection is ongoing on branches 0-21. The office of the WUCC was unable to provide exact figures, but the amount collected of Membership, Maintenance and Irrigation Service Fees are about 60%, 30% and 35% respectively of the total membership. Construction sub-committees have been formed at all 21 branches. The number of members within the various construction sub-committees varies from 7 to 15. A member of the WUCC is the coordinator of each construction sub-committee, and other members provide representation each respective branch and tertiary. At branch 2 the construction sub-committee members are actively monitoring the ESI construction works being carried out by the contractor.

The WUA main committee of KIS prepared an annual budget proposal for the WUA for FY 2067/68. The budget proposal was submitted to the WUA General Assembly and was approved. The budget is attached in **Annex 2**.

The Annual Action Plan for the KIS WUA Training Program has been prepared and submitted to OPD. The Action Plan is attached in **Annex 3**.

Progress on Water Management Action Plan:

An Action Plan and Budget for Development of KIS Canal Operation Plan has been prepared and submitted to OPD. The plan and budget is attached in **Annex 4**.

Current Issues within KIS include:

1. Delays in budget disbursements to DOI's field offices have prevented implementation of institutional strengthening activities, water management activities, and many WUA-related ESI activities. Budgets must be made available before progress can be made in these essential areas. This is a critical constraint.

B. Sunsari Morang Irrigation System (SMIS)

In SMIS (Sitagunj) the IMT Agreement was signed on November 25, 2010. Within the Ramgunj sub-system, preparations have commenced and are underway in advance of the signing of the IMT Agreement. The progress of the IMT implementation at SMIS within the present reporting period is as follows:

Progress on ESI Works:

Checking of design and bill of quantities was completed by the Component B TA and submitted to the SMU of SMIS. It is expected that the document will be forwarded to the OPD for approval.

Progress on WUA Development:

i. Sitagunj Sub-secondary system:

- An Annual Action Plan and Budget for Sitagunj WUA and SMU Staff Training and associated budget for the fiscal year 067/068 has been completed and submitted to OPD for funding (**Annex 5**).
- An Action Plan and Budget for Development of a Canal Operation Plan for SMIS Sitagunj Canal for the fiscal year 067/068 has been completed and submitted to OPD for funding (**Annex 6**).
- An Action Plan and Budget for preparation of Parcellary Mapping of SMIS Sitagunj has been completed (**Annex 7**) and submitted to OPD for funding.
- A Draft of ESI Guidelines has been completed and is ready for use by WUAs and SMU staff in upcoming ESI works.
- Preparation of a Cost Estimate for ESI works, and deferred maintenance to be carried out by DOI, has been completed, including review by the Component B TA.
- Post-IMT Agreement WUC meetings have been completed at canal sub-branches F and I have been conducted, and also WUCC meetings at associated branch levels. These meetings are regarding ISF and membership fee collection, establishment of WUA office, demarcation of area and operation and maintenance of canal systems.

ii. Ramgunj Sub-secondary system

- Name list collection of Water Users has been completed
- Elections are completed at 127 Water Courses (out of 235 total). Elections at the remaining Water Courses are progressing and will be completed by the end of Falgun, 2067 (mid-March 2011).

Current issues within SMIS include:

1. Similar to KIS, delays in budget disbursements to DOI's field offices have prevented implementation of institutional strengthening activities, water management activities, etc.
2. Establishment of the Sitagunj WUA office is delayed due to delays in WUA actions (meetings and ISF collection).
3. Rapid Appraisal & Asset Management Plan Development is being delayed in Ramgunj because WUA formation is incomplete.

C. Narayani Irrigation System (NIS) (Block 2 & 8)

The sub-project areas of Block 2 and 8 have been targeted as the first intervention package at NIS. There has been substantial activity at NIS during this reporting period, primarily related to pre-IMT Agreement preparations for NIS Block 8. This is detailed below:

Progress on NIS Action Plan:

An Action Plan for Pre-Agreement Activities was prepared by the SMU and WUA of NIS Block 8. The Action Plan covers all activities needed to be completed prior to the signing of the IMT Agreement for Block 8. The Action Plan is attached as **Annex 8**. The following items detail the progress in the activities of the Pre-Agreement Action Plan:

1. Review and Correction of Agreement Document: The main agreement document was reviewed and corrected by the project with the assistance of TA. The corrected

document was handed over to Banka Bahadur Mahato, Chairman of Block 8, for further review and suggestions. Similarly, one copy of the agreement was given to project office.

2. Review and Correction of all Annexes to the Agreement: All annexes were corrected and revised except Annex 18. (Annex 18 covers minutes of WUA meetings. These were not available to date, so will be attached later.)
3. Review and Correction of Bylaws of WUA: The Bylaws of the WUA were reviewed and corrected with the assistance of TA, in consultation with the chairman, vice chairman, and secretary of WUCC of NIS block 8. One copy of WUA bylaws was provided to them for further discussion in their WUA committee.
4. Revisions to Rapid Appraisal: All necessary data needed for the RA were reviewed and revised as needed. The revised Rapid Appraisal report has been provided to the OPD.
5. Agenda of Decisions on water availability, WUA formation & ISF collection works:
 - i. Water Availability in Block 8
 - ii. Election/Formation of WUA in Block 8
 - iii. Membership and ISF Collection norms Setting & Process

Decisions Made:

- a. Areas and water availability are to be based on original design parameters. The following irrigation service rate in Block 8 is agreed by both the SMU and the WUA of Block 8:

S.N.	Item	BSC 1	SSC 12	MSC	BSC 3	SSC 13	BSC 4	BSC 5	SSC 14
1.	Area (ha)	552	79	895	464	99	223	129	58
2.	Discharge l/s	657	93	1055	546	117	267	152	68

NOTE: BSC = Branch Secondary Canal; MSC = Main Secondary Canal; SSC = Sub-Secondary Canal

- b. Norms for Voters & Election.
 - Membership and ISF receipts should be given to members of Block Committee and Branch Committee for distribution.
 - The Membership Roster of ISF Collection should be completed by 25th Poush (9 January, 2011).
 - The Branch Committee has the authority to decide whether to impose the ISF on un-irrigated land, or not.
 - Toli committee members will consist of 7 persons of which 2 women and 1 dalit is compulsory.
 - Any farmer having land on multiple tertiary canals has only 1 vote, and can vote in only 1 tertiary election.
 - The Irrigation Service Fee rate will be NRs. 7/kattha (1 kattha = about 338.63 m²).
 - The Membership & Entry Fee = Rs.21 per member
 - The Renewal Fee of membership = Rs.10 per member
 - Any farmer not having membership, or having membership but having not paid ISF, will not be entitled to vote.
- c. Norms of distribution of ISF collected among different Committees

- Government – 20% of Total Collection
- Toli Committee retains – 50% of Total Collection
- Branch Committee retains – 20% of Total Collection
- Block Committee retains – 10% of Total Collection

d. Irrigation Service fee Collection Plan

- Receipts will be distributed to Block & branch members.
- The members will contact Tertiary Chairman after reformulation/ election of Toli Committee.
- The Toli Committee chairperson and secretary prepare the list of all the members who will irrigate the field.
- The Toli Committee Secretary then will start collecting the ISF as fixed in financial plan.

e. Office Establishment & Operation

- The block committee office is established in a room given by the Health post, Materuwa. The WUA has started meeting in this office which needs to be supplied with minimum lot of furniture and small kit of Stationary to initiate primary cost works. The project should think on it.

6. Agenda for Financial Plan Decisions

- i. Review and finalization of Financial Plan
- ii. Concurrence on new ISF rate required to meet O&M cost of canal system in Block-8.

(Note that Piyush Kr. Sharma facilitated the session and rigorous discussion was held to arrive at the conclusion. The following financial plan was agreed upon unanimously by WUA, with signed minutes as documentation.)

Decisions Made :

a. Office Operation Cost

- a. Block Committee – Rs.62.5/ha.
- b. Branch Office – Rs.39/ha.

b. Operation and maintenance cost

- a. MSC – Rs.141/ha.
- b. BSC – Rs.412/ha.
- c. SSC – Rs.188/ha.
- d. Tertiary – Rs.7.50/ha.
- Total – Rs.922/ha.

c. Regarding ISF rate and collection the committee agreed on the following breakdown of ISF Collection rate

Fiscal Year	Rate	Unit
2067/68	140	bigha /year
2068/69	200	”
2069/70	350	”
2070/71	500	”
2071/72	615	”

NOTE: 1 bigha (बिघा) = 20 kattha (कठ्ठा) = about 6,772.6 m² or 0.67 ha

7. Agenda for Decisions on WUA rules & agreement document (Dec 30, 2010)
 - i. Discussion & finalization of WUA Rules
 - ii. Discussion on Final Agreement document and annexes
 - iii. Process of forwarding agreement document to Project & IWRMP

Conclusions and Recommendation

1. All activities of the Action Plan except item no. 8 (concerning elections) have been completed with the intense participation of WUA members and the project manager.
2. Regarding item no. 8, elections, WUA and project staff are making substantial efforts to collect the name lists and to distribute memberships as required before the elections of the Tertiary committees. The previous name list collected by the SMU needed considerable correction. To facilitate this work it is strongly recommended to the NIS SMU provide a minimal amount of support (meals and snacks) for 1 month to the 5 members of the WUA who are making intense effort in this regard.
3. Long duration off-site trainings of SMU staff at the peak period of work need to be reviewed, as this has caused delays in IWRMP IMT progress to date.
4. Substantial progress on WUA election activities is necessary prior to the Agreement.
5. Newly formed tertiary members need to be heavily oriented on IMT objectives and process. This is of high priority, as many tertiary farmers have become members.
6. Project should plan an orientation training for elected members who are new and do not know the election process, devoted to practical actions for field-level implementation of IMT objectives.
7. Project staff, including SMU members, should visit the project site and help the WUA committee by encouraging, guiding, and providing minimum logistic support, especially during preparations for and at elections.
8. In general, the WUA is engaged and ready, and farmers are enthusiastic for new elections, but the involvement and support of NIS SMU project staff is needed.
9. IMT preparatory activities in Block 2 could not be initiated due to internal conflicts among WUA and water users.

Current issues within NIS include:

1. There is an internal dispute at Narayani Block 2 involving the management of the WUA. Legal action is underway to attempt to resolve this dispute. Until the dispute is resolved the completion of an IMT Agreement at Block 2 is highly unlikely. The time required for resolution, and the outcome, can not be predicted. Resolution may involve a new election, which will require additional time. Significant delays seem inevitable at Block 2.

Note that activities in the other Blocks at Narayani (Blocks 1, 3, 4, 5, 6, 9) are not anticipated under the IWRMP.

D. Mahakali Irrigation System (MIS) (Stage I)

The sub-project areas of Stage I have been targeted as the first intervention package at MIS. There has been limited progress at MIS since the signing of the IMT Agreement. The progress of the IMT implementation at MIS (Stage I) within the present reporting period is as follows:

Progress on ESI and DOI Maintenance Works

Recently, the ESI estimate, design works and design review have been completed. Approval and tender works will be started in near future.

Progress on WUA development

Irrigation Service Fee has been collected (NRs. 89076)

The WUA has cleaned silt from Bhujala branch of Block A and Chunderia and Suda branch of Block D.

Progress on Water Management

No progress has been made on System Calibration, Water Availability Analysis and Canal Operation and Maintenance Plan Development.

E. Miscellaneous

1. A training on Component D activities was conducted for SMU staff and agricultural staff by OPD in all IWRMP IMT systems.
2. In response to a request by the World Bank's fifth Implementation Review Mission/Mid-Term Review (Sept 26 – Oct 7, 2010), the Component B TA assisted the IMD to prepare two documents: (1) a proposal for assistance to the IWRMP, and (2) a long term vision document. These have been forwarded to the DOI Director General for review and transmittal to the World Bank.

Status of the Management Transfer Process

Irrigation System	Schemes and sub-systems	Kankai, Jhapa	Sunsari Morang		Narayani		Mahakali	Total
		Whole System	Sitagunj SC	Ramgunj SC	Block 2	Block 8	Stage I Kanchanpur	6 Schemes
	Command Area (Ha)	7,000	8,000	7,800	6,000		5,100	33,900
	No of WUA	1	1	1	1	1		6
Introductory Workshop	Status	Completed	Completed		Completed	Completed	Completed	
	Responsible Agency	OPD	OPD		OPD	OPD	OPD	
Dissemination of WUA guideline and other information	Status	Completed	Completed		Completed	Completed	Completed	
	Responsible Agency	OPD	OPD		OPD/SMU	OPD	OPD	
Sensitization and orientation activities for WUA and Field Staff	Status	Completed	Completed		Completed	Completed	Completed	
	Responsible Agency	SMU	OPD/SMU		OPD	OPD/SMU	OPD/SMU	
WUA constitution revision in the context of IMT	Status	Completed	Completed		Completed	Completed	Completed	
	Responsible Agency	OPD/SMU/ Sahara, Nepal	SMU/TA		SMU/TA	SMU/TA	SMU/TA	
Update WUA inventory	Status	Completed	Completed		Completed	Completed	Completed	
	Responsible Agency	OPD/SMU/ Sahara, Nepal	OPD/SMU/TA/ Sahara, Nepal		SMU/WUA	SMU/WUA	SMU/WUA	
Parcellary mapping	Status	2000 ha completed						
	Responsible Agency	OPD/SMU						
2 nd & 3 rd Consultation on MTA	Status	Completed	Completed		Completed	Completed	Partially Completed	
	Responsible Agency	OPD/SMU/ Sahara, Nepal	Sahara, Nepal		Neighbourhood Society/SMU	Neighbourhood Society/SMU/OPD	SMU/OPD	
IMT Agreement Signed	Status	Completed	Completed		Not Completed	Not Completed	Completed	
	Responsible Agency	OPD/SMU	OPD/SMU		OPD/SMU	OPD/SMU	OPD/SMU	
WUA formation on the basis of canal network	Status	Completed	Completed					
	Responsible Agency	SMU	SMU					
Updating AMP, IMT docs, FMP, ESI etc.	Status	Completed	Completed		On going	Completed	Completed	
	Responsible Agency	OPD/SMU	OPD/SMU/TA		OPD/SMU/TA	OPD/SMU/TA	OPD/SMU/TA	

Irrigation System		Kankai, Jhapa	Sunsari Morang		Narayani		Mahakali	Total
Schemes and sub-systems		Whole System	Sitagunj SC	Ramgunj SC	Block 2	Block 8	Stage I Kanchanpur	6 Schemes
Information Dissemination on IMT	Status	Completed	Completed		Completed	Completed	Completed	
	Responsible Agency	OPD/SMU/ Sahara, Nepal	SMU/OPD		Neighbourhood society/SMU	Neighbourhood society/SMU	SMU/OPD	
Monitoring Visit	Status	Two completed	One completed				One Completed	
	Responsible Agency	OPD	OPD				OPD	
Orientation to Field Staffs		Completed	Completed				Completed	
		OPD	OPD				OPD	

4 Social and Environmental Safeguards

4.1 Environmental and Social Screening

The IWRMP subprojects are required to be screened against the set of environmental and social criteria derived from GON regulations and the World Bank's safeguard policies. These include subproject type threshold, location, and potential impacts, as well as a list of negative items that cannot be funded under the project. Desk screening of available information will be field verified. The screening process establishes the level of social and environmental investigation necessary for a subproject and highlights the potential issues. The screening of a subproject results one of the following:

- Subproject is exempted from formal environmental and social investigations (IIEE/ISE and EIA/SIA). Subproject will have simple subproject-specific SEMP;
- Subproject requires IIEE/ ISE;
- Subproject requires detailed EIA / SIA;
- subproject is ineligible for funding under IWRMP as it fall under negative items list.

The SEMP identifies and assesses the social and environmental impacts resulting from the proposed development activities and prepares a management plan with mitigation measures including the cost of mitigation, monitoring, auditing and capacity building. The SEMP must be prepared for each sub-project, even if no EIA/IEE is required (as per the Environmental Protection Rules 1997, 1999 of GON) and it should be site specific. The objective of SEMP is not only to mitigate the adverse (or negative) social and environmental impacts but at the same to enhance the positive impacts. It should contain a detail description of the potential social and environmental impacts (both during construction and operation and maintenance), mitigation measures and mechanisms for both implementation and monitoring for each sub-project activity. The SEMP should be properly and adequately integrated in over all planning, designing, budgeting and implementing of a sub-project. In fact, SEMP will be integral part of the sub-project plan.

4.2 SEMP Status

In Kankai SEMP Guideline Orientation Training was conducted for 6 SMU staff. SMU staff then completed an SEMP Guideline and this was submitted to the World Bank.

OPD is planning to conduct a similar orientation training for NIS, SMIS, and MIS SMU staff in the near future.

5 Financial Management Status

No change during this reporting period.

6 Governance and Anti Corruption Plan

No change during this reporting period.

7 Identified Issues and Suggestions

- Nepal is in a phase of political transition. New statutes have been drafted by the congressional assemblies in order to address demands of citizens who believe they were excluded from the main stream of state politics in the past. The practice of blocking roads and calling strikes to call attention to various issues has become part of daily life in Nepal. This disrupts all activities and hinders the Project's ability to meet its targets. The situation will likely persist for the foreseeable future. The IWRMP must function within this context, and can best address the situation by recognition of the uncertainty in planning phases.
- Lack of technical manpower has delayed the progress of implementation at some sub-project locations. DOI is fully aware of the issue and has been trying to overcome the problem.
- Lack of budget disbursement by GON to the SMUs has severely constrained all types of field activities. This is understood to be caused by Parliamentary and related political issues which delayed higher level budgetary approvals for the current fiscal year. This must be rectified if progress is to be made under the IWRMP.
- Within the present IWRMP staffing structure the Project's capacity for training program development and implementation is constrained by a shortage of experienced specialists. Additionally, the present implementation structure of the IWRMP (and similar projects) is not entirely conducive to a high degree of institutional memory within the DOI and adequate post-Project monitoring, evaluation, and follow-up support. These issues are recognized by the DOI, Component B TA, and World Bank. At the request of the World Bank the Component B TA has assisted the Irrigation Management Department (IMD) of the DOI to prepare a proposal for increased involvement in the IWRMP, and also a longer term vision statement for the involvement of the IMD in the area of IMT in general within Nepal. If the proposal and vision statement are adopted and funded by the GON and/or World Bank (and/or other funding sources), the increased involvement of the IMD is expected to address these issues to a large extent.
- Approximately 1 year has passed since the mobilization of Component B TA staff. It is now apparent that TA staffing needs are somewhat different than as originally conceived. A Financial Management Specialist has already been engaged to assist in addressing critical financial management needs within the DOI. In addition, an increased level of effort is particularly needed in the areas of domestic Sociologist/Institutional development Specialist and domestic Water Management Expert. The TA has prepared a revised staffing schedule which addresses this need and forwarded this to the OPD. The TA is awaiting the OPD's approval to take action in this regard.

8 Staffing Activities

No change during this reporting period.

ANNEXES

Annex 1: KIS Bill of Quantities for ESI works, S₁₇ and S₁₈

BILL OF QUANTITIES for KIS S₁₇ and S₁₈

Contract No.: EIDD#1/KIS-IV

2066/067

Package No.:

EIDD#1/KIS-IV

Name of Project: Kankai Irrigation System

Name of Works: Construction and Improvement of Canals and Structures

Location: Main Canal, Secondaries (S₁₇ and S₁₈) and Service Road

SN	Particulars	Unit	Quantity	Rate, NRs	Amount, NRs	Remarks
1	Earthwork in excavation in foundation in ordinary soil including disposal up to 10m lead & 1.50m lift, all complete	m3	1869.34	175.53	328125.25	
2	Earthwork in excavation in ordinary soil (in shallow depth of water) including disposal up to 10m lead & 1.50m lift, all complete	m3	287.12	506.37	145388.95	
3	Earthwork in filling by ordinary soil from borrow pit soil with lead 1km (by truck in earthen/gravel road) & normal lift, all complete	m3	33988.24	236.37	8033800.29	
4	Earthwork in excavation canal in ordinary soil including disposal up to 10m lead & 1.50m lift., all complete	m3	2557.44	157.53	402873.52	
5	Earthwork in structural backfilling by ordinary soil with normal lead & lift, all complete	m3	2160.86	56.25	121548.38	
6	Earthwork in making bank by using ordinary soil obtained from the canal excavation, breaking soil lumps, forming profile including dressing and adjustment of slope and grade of bank as well as canal (upto 1.5m lift and 30m lead), all complete	m3	2530.41	123.19	311721.21	
7	Earthwork in backfilling from borrow pit, all complete	m3	13.52	213.79	2890.44	
8	Supplying of 9" rubber seal (of required specification) as per office instruction at at site all complete, all complete	rm.	250.00	847.54	211885.00	
9	Plain Cement Concrete work in ratio 1:3:6 for foundation, vertical faces, walls including supply of materials (haulage distance up to	m3	207.72	6796.78	1411827.14	
10	Plain Cement Concrete work in ratio 1:2:4 for foundation vertical faces, walls including supply of materials (haulage distance up to	m3	888.18	8043.76	7144306.76	
11	Demolishing of PCC or mortared concrete & removing demolished materials 10m away from site, all complete	m3	44.58	874.00	38962.92	
12	Supplying & filling by stones in the foundation and levelling including haulage upto 30 m, all complete	m3	38.66	2928.42	113212.72	
13	Supplying and filling of boulder in gabion crate boxes, tying, tightening, closing from top, etc all complete	m3	303.75	2276.48	691480.80	
14	Supplying of 10 SWG medium coated G.I wire including wire cutting, netting, making rectangular gabion box with mesh size of 100x100 mm with two-way double knot etc all complete.	m2	1417.50	184.03	260862.53	
15	Making wooden forms including supply & selection of materials, fixing, nailing as per drawing etc all complete	m2	3461.99	182.88	633128.73	
16	Supplying of steel reinforcement with cutting, bending, binding by binding wire & placing in position as shown in the drawings, all	kg.	40993.41	80.65	3306118.52	
17	Steel gate repair work as per instruction, including servicing, painting etc all complete	No.	6.00	25000.00	150000.00	
18	H/R & C/R steel gate repair as per instruction, including servicing, painting etc all complete	No.	9.00	40000.00	360000.00	
19	Supplying, fitting and fixing of wooden gate as per instruction, all	No.	36.00	8000.00	288000.00	
20	Supplying and filling of river bed material in rain-cut and depressed portion of service road of Reach 1 of main canal including spreading and compaction etc all complete	m3	1806.00	830.52	1499919.12	
21	Supplying & laying of NP2 hume pipe of diameter as given below with its accessories with 1:2 cement plaster, jute etc including 100m haulage, all complete					
	i) 300mm dia	No.	12.00	3252.18	39026.16	
	ii) 450mm dia	No.	4.00	4432.67	17730.68	
	iii) 600mm dia	No.	2.00	5362.32	10724.64	
22	Dewatering and diversion work for foundation, all complete	job.	1.00	L.S.	75000.00	
	Total				25598533.76	
	VAT				3327809.38	
	Grand Total				28926343.14	

Annex 2: KIS Jhapa District WUA Budget for FY 2067/68

Kankai Nahar WUA, Jhapa

Description of Tentative Income and Expenditure

a) Tentative Income

S.N.	Description	Tentative Income (NRs)		Remarks
		F.Y.2066/067	F.Y.2067/068	
1	Last year saving	108122.63	425783.85	
2	ISF collection	169999.53	2473800.00	
3	Membership distribution and renewal	6440.00	80000.00	
4	Machinery & Equipments	454200.44	424000.00	
5	Contribution for ESI	-	11838000.00	
6	Donation	800000.00	50000.00	
7	Share membership distribution	-	100000.00	
8	Punishment fee	-	5000.00	
9	Miscellaneous	5000.00	2000.00	
Total		15,43,762.60	1,53,93,583.85	

b) Tentative Expenditure

S.N.	Description	Tentative Expenditure (NRs)		Remarks
		F.Y.2066/067	F.Y.2067/068	
1	Salary	86842.46	499500.00	
2	Allowance	30694.00	202150.00	
3	Transportation	23450.00	45000.00	
4	Office materials	17405.00	35000.00	
5	Printing	53982.50	35000.00	
6	Maintenance	11340.00	12209200.00	
7	Furniture	489875.00	40000.00	
8	Telephone	8490.00	25000.00	
9	Renewal fee	200.00	100.00	
10	Fuel	204445.04	523473.00	
11	Advertisement	-	5000.00	
12	Newspaper	-	3500.0	
13	Government tax	17000.00	247380.00	
14	Auditing	-	7000.00	
15	Refreshment	18284.00	20000.00	
16	Branch donation	113887.75	1484280.85	
17	Deposit Return	40000.00	5000.00	
18	Miscellaneous	2075.00	7000.00	
Total		11,17,987.75	1,53,93,583.85	

Annex 3: KIS Annual Action Plan for Training Program for 2011

(For November 2010- July 15, 2011)

Objectives : To develop Self-Governing, self-Financing, Self-Regulating and Sustainable WUA Capacity Building of WUA and DOI Staffs of Kankai Irrigation System.

S.N.	Activities	Training Packages	Target Group	Target Numbers	Time Schedule		Responsible Person	Assistant Person	Monitoring Person	Budget	Status/ Completion
					Beginning	Ending					
	1. Basic account and record keeping to Tertiary President and Tertiary Secretaries, 2 days training, 25 Participants in each Package.	4	TS	100	10th Nov	30th Nov	AO	AAO, FA, OA	Engineer	180000	
	2. Preparation of Action Plan training Branch Committee Selected Members, 3 days training, 25 Participants in each Package.	3	BC	75	20th Dec	30th Dec	AO	AAO, FA, OA	Engineer	180000	
	3. ISF collection and management to Tertiary Member-1 from each Tertiary, 3 days training, 25 Participants in each Package.	4	TCM	100	1st Jan	30th Jan	AO	AAO, FA, OA	Engineer	240000	
	4. Training of Trainers to KIS Staffs and WUA, 3 days training, 25 Participants in each Package.	1	KIS-WUA	25	1st Dec	4th Dec	Engineer	AO, AAO, FA, OA	SMU-Chief	60000	
	5. Participatory monitoring and evaluation training to branch president and tertiary president, 2 days training, 25 Participants in each Package.	5	BP+TP	100	1st Feb	10th Feb	AO	AAO, FA, OA	Engineer	225000	
	6. Gender awareness and women's participation in irrigation, Training to all women members of main branch and tertiary Committee, 3 days training, 25 Participants in each Package.	5	WM main Branch Tertiary	100	15th Mar	30th Mar	AO	AAO, FA, OA	Engineer	300000	
	7. Consultation Workshop with WUA as and when needed.	3	WUA	90			Eng/AO	AAO, FA, OA	SMU-Chief	75000	
	9. Consultation Meeting with WUA as and when needed.	3	WUA	90			AO	AAO, FA, OA	Engineer	75000	
	10. Annual Progress Review workshop with WUA.	1	WUA	30	July 1st Week		Engineer	AAO, FA, OA	SMU-Chief	30000	

2 Capacity Building Development of KIS staffs & WUA											
a. Proposal and Report Writing training to KIS Staffs, 3 days training, 10 Participants in each Package.	1	KIS-staffs	20	11th Dec	15th Dec	Engineer	AAO, FA, OA	SMU-Chief	25000		
b. Irrigation Water Management training to KIS Staffs and WUA, 3 days training, 25 Participants in each Package.	1	KIS-WUA	25	5th Dec	10th Dec	Engineer	AAO, FA, OA	SMU-Chief	50000		
c. Leadership skill development training to WUA, 2 days training, 25 Participants in each Package.	4	MC, BC, TC members	100	16th Apr	25th May	AO	AAO, FA, OA	Engineer	200000		
d. Study Tour For WUA and KIS Staffs)											
1. Water Management, Canal Operation and Maintenance Study tour to Selected Member of Each Branch Committee, 5 days tour, 25 Participants.	1	BC	25	1st June	5th June	AO	AAO, FA, OA	Engineer	200000		
2. Financial and Office Management, Study tour to Selected Member of Each Branch Committee, 5 days tour, 25 Participants.	1	BC	25	10th June	15th Jun	AO	AAO, FA, OA	Engineer	200000		
3. Gender Development and Income Generation Observation Tour to All Female Member of WUA of Branch, 5 days tour, 25 Participants.	1	WUA	25	20th Jun	25th Jun	AO	AAO, FA, OA	Engineer	200000		
4. Agriculture Program Observation Tour to Selected Member from Each Tertiary Canal, 3 days tour, 25 Participants	2	TCM	50	28th Jun	10th Jul	AO	AAO, FA, OA	Engineer	250000		
									Total	2490000	

Note:

TP = Tertiary President

TS = Tertiary Secretary

MC = Main Committee

BC = Branch Committee

TC = Tertiary Committee

P = President

VP = Vice President

S = Secretary

TCM = Tertiary Committee

WM = Women Member

Annex 4: Action Plan and Budget for Development of KIS Canal Operation Plan

Objectives : To deliver reliable bulk water service equitably at each branch canal head as per Irrigation Schedule agreed upon by WUA and KIS in the agreement

S.N.	Activities	Time Schedule		Responsible Person	Assistant Person	Monitoring Person	Budget	Status/ Completion
		Beginning	Ending					
	1. Water Availability							
	1.1 Compilation of existing flow data of main canal	15th Kartik	20th Kartik	Mr. Pradip Bantawa	Mr. Budhilal	SMU Chief	not applicable	completed
	1.2 Analysis	15th Kartik	20th Kartik				not applicable	
	1.2.1 Monthly availability	25th kartik	30th Kartik	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma	SMU Chief	not applicable	
	1.2.12 Seasonal availability	25th kartik	30th Kartik	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma	SMU Chief	not applicable	
	2. Existing Practices							
	2.1 Documentation of previous practices adopted	10th Kartik	15th Kartik	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma	SMU Chief	not applicable	
	2.2 Gate adjustment practices opt by chaukidars	10th Kartik	15th Kartik	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma	SMU Chief	not applicable	
	3. Inventory of branchwise command area based on parcellary map						not applicable	
	3.1 Parcellary map preparation	5th Poush	30th Chaitra	Mr. Pradip Bantawa	Mr. Punit & Durbha	SMU Chief	not applicable	
	3.2 Preparation of inventory chart with branchwise including command area	5th Poush	30th Chaitra	Mr. Pradip Bantawa	Mr. Punit & Durbha	SMU Chief	not applicable	
	4. Consultation with WUA for water allocation chart							
	4.1 Demand assessment	1st Margh	15th Margh	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma	SMU Chief	45000	
	4.2 Loss assessment training to division staff	15th Mangsir	20th Mangsir	Mr. Pradip Bantawa	Mr Gopal Poudel/TA	SMU Chief	30000	
	4.3 Equipment for loss assessment purchased	1st Mangsir	10th Mangsir	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma	SMU Chief	80000	
	4.4 Loss assessment implementation	1st Poush	30th Poush	Mr. Pradip Bantawa	Engineers-2/TA	SMU Chief	200000	
	4.5 Crop water requirement (CWR) assesment	20th Poush	30th Poush	Mr. Pradip Bantawa	Engineers-2/TA	SMU Chief	25000	

5. Calibration of key structures								
5.1 Group formation with WUA	1st Mangsir	7th Mangsir	Mr. Pradip Bantawa	Mr. Gopal Poudel	SMU Chief			
5.2 Calibration & Development of chart							250000	
5.3 Gauge fixatation	20th Kartik	30th Kartik	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma	SMU Chief		150000	
5.4 Demonstration training of gate setting and flow regulation- target WUA of 21 branches (21x4 = 84 participants)	1st chaitra	7th chaitra	Mr. Pradip Bantawa	Mr. Budhilal Bisuwalkarma/TA			160000	
6. WUA consultation workshop	Falgun 20	Falgun 26	Mr. Pradip Bantawa	Mr Gopal Poudel/TA	SMU Chief		100000	
6.1 Irrigation schedule development								
6.2 Policies of operation								
6.3 Communication system								
6.4 Organization system								
7. Demonstration of Irrigation schedule application	5th Chaitra	8th Chaitra					60000	
7.1 Wheat schedule	1st Mangsir	15th Falgun						
7.2 Early paddy schedule	1st chaitra	30th Jestha					100000	
7.3 Late paddy schedule							960000	
8. Water management training to tertiary member selected by tertiary committee (3 days & 25 participants in each packagefor 16 nos, altogether 400 participants)								
8 Manual Development	15th Mangsir	15th Jestha					100000	
8. Canal operation plan (COP) training								next year
8.1 Dalpa								
8.2 Chairman and secretary of branch & tertiary level								
Equipments :								
	Cutthroat flume	4 nos						
	Ringinfiltrometer	1 nos						
	2 kg hammer	2 nos						
	Spirit level	4 nos						
	Steel scale	10 nos						
	Hook gauge	4 nos						
						Total Budget	2260000	

Annex 5: SMIS Sitagunj Annual Action Plan and Budget for WUA and SMU Staff Training for FY 2067/68

Objectives: Institutional development, WUA strengthening and capacity building of DOI staff.

S.N.	Activities	Training Packages	Target Group & Branch	Target Numbers	Time Schedule		Responsible Person	Assistant Person	Monitoring Person	Amount (NRs)
					Beginning	Ending				
1	Administration and office management training for chairperson, vicechairperson and secretary of WUCC, WUC and WUG, 2 days training, 25 participants at each package)	3	BC & TC	75	Falgun, 2067	Chaitra, 2067	Sociologist	SMU staffs , TA & Resource person	SMU-Chief, Engineer	200000.00
2	Construction management and quality control training (for Chairperson, secretary and one member of WUCC and WUC, 3 days training, 25 participants at each)	2	BC	50	Baisakh, 2068	Baisakh, 2068	Engineer	SMU staffs , TA & Resource person	SMU-Chief, Engineer	150000.00
3	Basic account and record keeping training (for branch & tertiary chairperson, secretary and treasurer, 2 days training, 30 Participants in each Package).	1	BC & TC	30	Baisakh, 2068	Baisakh, 2068	Sociologist	SMU staffs , TA & Resource person	SMU-Chief, Engineer	100000.00
4	Preparation of Action Plan training (for branch & tertiary chairperson, secretary and treasurer, 3 days training, 30 Participants in each Package).	1	BC & TC	30	Chaitra, 2067	Chaitra, 2067	Socio/Eng	SMU staffs , TA & Resource person	SMU-Chief, Engineer	100000.00
5	ISF collection and management training (for WUCC, WUC and WUG members, 2 days training, 30 Participants in each Package).	6	BC & TC	180	Chaitra, 2067	Baisakh, 2068	Sociologist	SMU staffs , TA & Resource person	SMU-Chief, Engineer	425000.00
6	Training of Trainers (for SMIP Staffs and WUA, 3 days training, 25 Participants in each Package).	1	SMU & WUA	25	Magh, 2067	Magh, 2067	SMU Chief	SMU staffs , TA & Resource person	SMU-Chief, Engineer	100000.00
7	Consultation Workshop with WUA as and when needed.	1	WUA	50	Falgun, 2067	Falgun, 2067	Eng/AO	SMU staffs , TA & Resource person	SMU-Chief, Engineer	75000.00
8	Workshop on gender development and income generation to all female members of WUA	1	WUA	25	Jestha, 2068	Jestha, 2068	Sociologist	SMU staffs , TA & Resource person	SMU-Chief, Engineer	75000.00
9	Consultation Meeting with WUA as and when needed.	1	WUA	50	Chaitra, 2067	Chaitra, 2067	AO	SMU staffs , TA & Resource person	SMU-Chief, Engineer	75000.00
10	Annual Progress Review workshop with WUA.	1	WUA	25	Jestha, 2068		Engineer	SMU staffs , TA & Resource person	SMU-Chief, Engineer	50000.00
Study Tour For WUA and SIS Staffs										
1	Water Management, Canal Operation and Maintenance Study tour to Selected Member of Each Branch Committee, 5 days tour, 30 Participants.	1	BC	30	Magh, 2067	Magh, 2067	Socio/AO	SMU staffs , TA & Resource person	SMU-Chief, Engineer	300000.00
									Total	1575000.00

In Words: Rupees fifteen lakhs seventy-five thousands only**Note:**

MC-Main Committee

BC-Branch Committee

TC-Tertiary Committee

Tentative Required Budget for Conduction of Program at Ramgunj Irrigation System, SMIP							
S.N.	Activities	Time Schedule		Cost (NRs)			
		Beginning	Ending				
1	Updating of name list of the users, WUA reformation (WUC, WUG & WUCC of RIS and report preparation.	Mansir, 2067	Paush, 2067	600000.00			
2	Conduction of first, second, third consultation and workshops.	Magh, 2067	Baisakh, 2068	500000.00			
		Total		1100000.0			
		In words: Eleven lakhs only					
Note: WUC = Water Users Committee WUCC = Water Users Coordination Committee WUG = Water Users Group Prepared By..... Recommended By..... Approved By.....							

Annex 6: Action Plan and Budget for Development of SMIS Sitagunj Canal Operation Plan

Subject:- Action Plan for Development of Canal Operation Plan for Sitagunj Secondary Canal

Objectives:- To deliver reliable bulk water service equitably at each branch canal head as per Irrigation Schedule agreed upon by WUA and SMIP in the agreement

S.N.	Activities	Time Schedule		Responsible Person	Assistant Person	Monitoring Person	Budget (Rs.)	Status/Completion
		Beginning	Ending					
1	Water Availability							
1.1	Compilation of existing flow data of main canal	-	-	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha		
1.2	Analysis	-	--	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	Not needed	
1.2.1	Monthly availability	-	-	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	Not needed	
1.2.2	Seasonal availability	-	-	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	Not needed	
2	Existing practices							
2.1	Documentation of previous practices adopted	-	-	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	Not needed	
2.2	Gate adjustment practices opt. by Chaukidars	-	-	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	Not needed	
3	Inventory of branch-wise command area based on parcellary map							
3.1	Parcellary map preparation	6 th March 2011	14 th Jan2012	Er. Revakant Yadav	Mr.M.N.Das	S.D.E.K.K.Jha	800000	
3.2	Preparation of inventory chart with branch-wise including command area	-	-	Er. Revakant Yadav	Mr.M.N.Das	S.D.E.K.K.Jha	Not needed	
4	Consultation with WUA for water allocation chart							
4.1	Demand Assessment	15 th March,2011	13 th April,2011	Er. Revakant Yadav	Er. P.C.Jha	S.D.E.K.K.Jha	72000	
4.2	Loss assessment training to division staff	17 th April,2011	28 th April,2011	Er. Revakant Yadav	Er. P.C.Jha	S.D.E.K.K.Jha	48000	
4.3	Equipments for loss assessment to be purchased	15 th March,2011	13 th April,2011	Er. Revakant Yadav	Er. P.C.Jha	S.D.E.K.K.Jha	100000	
4.4	Loss assessment implementation	6 th March,2011	14 th Jan,2011	Er. Revakant Yadav	Er. P.C.Jha	S.D.E.K.K.Jha	300000	
4.5	Crop-water requirement (CWR) assessment	29 th April,2011	13 th May,2011	Er. Revakant Yadav	Er. P.C.Jha	S.D.E.K.K.Jha	40000	
5	Calibration of key structure							
5.1	Group formation with WUA	-	-	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	Not needed	
5.2	Calibration & development Chart	29 th March,2011	13 th May,2011	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	400000	
5.3	Gauge fixation	29 th May,2011	13 th June,2011	Er. Revakant Yadav	Er. R.L.Karna	S.D.E.K.K.Jha	65000	
						Total NRs.	18,25,000	

Annex 7: Action Plan and Budget for preparation of Parcellary Mapping of SMIS Sitagunj

Subject:- Parcellary Map Development

Objectives:- To prepare inventory of irrigated land and land owners through parcellary map development

Branches	SS9A-T2	SS9B	SS9C	SS9D	S9-T1	S9-T2	SS9E	SS9F	SS9G	S9-T3	S9-T4	SS9H	SS9I	SS9J
Completion duration	6 th March,2011 to 15 th June,2011					16 th June,2011 to 30 th September,2011					1 st October,2011 to 10 th January,2012			
Area (Ha.)	128	987	458	566	319	191	722	541	882	66	325	364	1278	1094
Total area(Ha.)	2458					2727					2736			

2. Cost Estimates

S. N.	Activities	Type of manpower	Number of manpower	Total man days	Time schedule		Responsible person	Assistant Person	Monitoring Person	Budget (Rs)	Status /completion
					Beginning	Ending					
1	Fixation of VDC's and their ward (surveyor)	surveyor	3	7 days	6March, 2011	14 March, 2011	Er.R.K.Yadav	M.N.Das		7350	
2	Acquisition of map from Napi office and delineation of C.A. on the Acquired map (surveyor)	surveyor	3	45 days	15 March, 2011	29 March, 2011	Er.R.K.Yadav	M.N.Das		47250	
3	Copying the profile record of canal water users										
a)	Surveyor	surveyor	3	30	29 April, 2011	29 May, 2011	Er.R.K.Yadav	M.N.Das		31500	
b)	Survey helper (semi- skilled labour)	Chain-man		360 days	29 April, 2011	29 May, 2011	Er.R.K.Yadav	M.N.Das		90000	
4	Field verification										
a)	surveyor	surveyor		250 days	30 May, 2011	15 Sep, 2011	Er.R.K.Yadav	M.N.Das		87500	
b)	Labour	Chain man		500 days	30 May, 2011	15 Sep, 2011	Er.R.K.Yadav	M.N.Das		125000	
c)	WUA members			375 days	30 May, 2011	15 Sep, 2011	Er.R.K.Yadav	Mr. Benu Poudel		112500	
5	Tracer / skilled			360 days	17 Sep,2011	30 Dec,2011	Er.R.K.Yadav	M.N.Das		122400	
6	Report preparation				1 Jan,2012	15 Jan,2012	Er.R.K.Yadav	Er.R.L.Karna		50000	
7	Blue print, map purchasing charge etc.						Er.R.K.Yadav	M.N.Das		25000	
8	Stationary, parmatrace paper etc.						Er.R.K.Yadav	M.N.Das		40000	
9	Survey accessories						Er.R.K.Yadav	M.N.Das		27000	
10.	fuel						Er.R.K.Yadav			34500	
Total Amount NRs.										800000	

Annex 8: Action Plan for Pre-Agreement Activities for NIS Block 8

सम्झौताको लागि गर्नु पर्ने
कार्यक्रमको कार्य योजना, ब्लक नं. ८, ना.सि. प्रणाली

मिती	कार्यक्रम विवरण	सुरु गर्ने मिती	समाप्त गर्नुपर्ने मिती	जिम्मेवार व्यक्ति	सहयोग गर्ने व्यक्ति	अनुगमन गर्ने व्यक्ति	प्रगति/प्रगति नहुनाको कारण
१	सम्झौता पत्र पुनरावलोकन	पुप-६,०९७	पुप-९,०९७	अजित श्रीवास्तव/ ज.उ.स सचिव	पियूष शर्मा/कृषि न्यौपाने	आयोजना प्रमुख/ज.उ.स. अध्यक्ष	; dfK
२	सम्पूर्ण अनुसूचीहरूको पुनरावलोकन	पुप-९	पुप-१२				; dfKt
३	विधान पुनरावलोकन	पुप-१०	पुप-१०	ज.उ.स. अध्यक्ष/सचिव	पियूष शर्मा		; dfK
४	मिथ्र सेवाजोखा सुधार	पुप-११	पुप-१४		पियूष शर्मा/कृषि न्यौपाने		; dfK
५	आर्थिक योजना तयारी	पुप-१०	पुप-१०				; dfKt
६	सम्बन्धित लगत सुधार	पुप-११	पुप-१०	ज.उ.स. पदाधिकारीहरू	विरेन्द्र कुर्मी		; dfK
७	सरचना सुधार लगत पुनरावलोकन	पुप-१२	पुप-१३	विरेन्द्र कुर्मी	विजय भट्ट		; dfK
८	जल उपभोक्ता संस्थाको पुनर्गठन/चुनाव क) टोली समिती चुनाव ख) सदस्यता/पानी सेवा शुल्क सुझाउने ग) शाखा समिती घ) समन्वय समिती ङ) चुनाव समिती + समन्वय समितीको बैठक	पुप-२८ पुप-१० पुप-१४ माघ-२९ पुप-८	माघ-१० पुप-२२ माघ-२२ माघ-२९ पुप-८	चुनाव समिती " " ज.उ.स. अध्यक्ष	ज.उ.स. आयोजना/राजेन्द्र राधेश्याम सचिव		; dfK ; dfK ; dfK ; dfK
९	कार्यालय संचालन	पुप-६	पुप-६	ज.उ.स. अध्यक्ष	सचिव		; dfKt
१०	पानी उपलब्धता बैठक	पुप-९	पुप-९	आयोजना प्र.	ज.उ.स.		; dfKt
११	सिक्नाइ सेवा शुल्क सकलन योजना	पुप-८	पुप-८	अध्यक्ष ज.उ.स.	सचिव		; dfKt
१२	ज.उ.स. नियमावली बैठक	पुप-१२	पुप-१२	उपाध्यक्ष/अध्यक्ष	पियूष/राजेन्द्र		; dfKt

