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USAID Karnali Water Activity

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YEAR 3 QUARTER 2 PROGRESS REPORT  
(October 1 – December 31, 2023)

# USAID KARNALI WATER ACTIVITY

## YEAR 3 QUARTER 2 PROGRESS REPORT (October 1 – December 31, 2023)

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**Cover Photo:** In this photo, an event was held in the Raji community of Chaukune, Surkhet district, featuring a handwashing demonstration and awareness-raising as part of a social and behavioral change initiative of the Activity.

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## ACRONYMS

Activity	USAID Karnali Water Activity
BHAKARI	Building Hope Along the Karnali River Basin
CBRT	Criteria-Based Ranking Tool
CD	Capacity Development
CIP	Construction Implementation Plan
CC	Collection Chamber
CoP	Chief of Party
CSP	City Sanitation Plan
DC	Distribution Chamber
DCoP	Deputy Chief of Party
DPR	Detailed Project Report
DWS	Drinking Water Supply
DWSS	Drinking Water Supply and Sanitation
FGD	Focus Group Discussions
DWSSM	Department of Water Supply and Sewerage Management
FSM	Fecal Sludge Management
FSTP	Fecal Sludge Treatment Plant
GESI	Gender Equality and Social Inclusion
ICA	Institutional Capacity Assessment
IQC	Indefinite Quantity Contract
IWMI	International Water Management Institute
IWMP	Integrated Watershed Management Plan
KII	Key Informant Interview
KRB	Karnali River Basin
LGs	Local Governments (Municipality or Rural Municipality)
LTTA	Long-Term Technical Assistance
MERL	Monitoring, Evaluation, Research and Learning
MIS	Management Information System
MoWS	Ministry of Water Supply
MoWRED	Ministry of Water Resources and Energy Development (Karnali Province)
MUS	Multiple Use Water System
N-WASH	National Water Sanitation and Hygiene
PEA	Political Economy Analysis
PES	Payment for Environmental Services
Q&Q	Quality and Quantity
RVT	Reservoir Tank
SBC	Social Behavior Change
SSBH	Strengthening Systems for Better Health
STTA	Short Term Technical Assistance
SWAT	Soil and Water Assessment Tool
SWN	Scott Wilson Nepal (Sub-contractor)
ToT	Training of Trainers
USAID	United States Agency for International Development
WAG	Water Association Group
WASH	Water, Sanitation and Hygiene
WASH-FIN	WASH Financing

WRM	Water Resources Management
WSS	Water Supply and Sanitation
WUMP	Water Use Master Plan
WUSC	Water Users and Sanitation Committee

## EXECUTIVE SUMMARY

The second Quarterly Report of Year 3 comprehensively outlines the progress and challenges in the implementation of the USAID Karnali Water Activity (referred to as the "Activity") from October 1 to December 31, 2023, as mandated by the Contract. Key achievements for this quarter include:

### 1. Water Supply and Sanitation (WSS) Achievements:

- Successfully completed the last two Year 2 WSS schemes, providing safe drinking water for an additional 594 members in marginalized communities.
- 

### 2. Engineering and Project Reports:

- Conducted detailed engineering surveys for 151 WSS schemes, finalizing 21 surveys this quarter.
- Completed detailed engineering designs, drawings, estimates, and BOQs for 147 WSS schemes.
- Finalized Detailed Project Reports (DPR), Source Protection (SP) reports, and Environmental Review Reports (ERR) for 90 key WSS schemes.

### 3. Funding and Commitments:

- Secured cost share commitments from all LGs and collaborated with 22 LGs to leverage [REDACTED] for constructing 126 WSS schemes in Year 3.
- Communities committed to an in-kind contribution of 15-25%, equivalent to [REDACTED] for the construction of the 126 WSS schemes.

### 4. Community Engagement and Initiatives:

- Formed 115 WUSCs, supporting Year 3 WSS scheme construction and management.
- Developed and implemented five Climate Resilient Water Safety Plans in 34 WSS schemes and one Multiple-Use System (MUS) scheme.
- Designated twelve communities as implementation areas for the Water Champion Community approach, initiating an SBC challenge campaign in three communities in Mugu, Kalikot and Achham districts.

### 5. Legislation, Governance, and Stakeholder Engagement:

- Awarded two grants through the Karnali Water Challenge, with approved inception reports for initiating piloting interventions.
- Conducted topographic surveys, drafted design reports, and conducted household and institutional surveys for infrastructure projects.
- Completed ward-level FGDs in selected municipalities and conducted LG level consultation workshops on WASH Bill finalization.

- Organized Bill drafting committee meetings in Panchdewal Binayak, Thandikanth, Panchapuri, and Lamkichuha. Drafted WASH Bills and validated/finalized Bills for Madhuwan, Ramaroshan, Panchdewal Binayak, Thandikanth, Lamkichuha, and Panchapuri.
- Conducted successful One Water Steering Committee (OWSC) orientation events in Tila and Rara watersheds, involving Mayors, Deputy Mayors, and other OWSC members representing the Sub-Watershed Management Committee (SWMC) and government line agencies. Organized the fifth project steering committee meeting where the Activity highlighted achievements from Years 2 and 3, gathered feedback, and ensured alignment with government priorities.

## A. PROJECT INTRODUCTION

USAID Karnali Water Activity is a five-year (three base years and two option years) project funded by USAID and implemented by DAI Global LLC (DAI). The Activity will create an integrated vision and drive collective action in the Karnali River Basin (KRB) by mapping assets, risks, and attitudes; convening stakeholders to align interests; co-designing and co-implementing plans and interventions; and rigorously monitoring, learning, and adapting for impact and sustainability. By replicating this approach across the KRB, The Activity will deliver a system that produces:

- New and rehabilitated safely managed drinking water and multiple use water systems (MUSs). Municipalities, Water Users, and Sanitation Committees strengthened to effectively plan, manage, and sustain the water systems.
- Sustainable, safely managed fecal sludge management (FSM) service provision, connected to viable fecal sludge treatment plants with circular economy options from fecal waste stream reuse.
- Local government and community actors with the legal mandate, partnerships, and capacity to deliver sustainable WSS services and manage water resources equitably.
- Well-protected and managed water catchment areas that ensure ecological flows for sustainable water services.

At the end of five

years, the KRB will be home to healthy, resilient, and water-secure communities that have the skills and capacities to manage their water resources and scalable, shock-responsive systems relevant to stressed watersheds.



*Photo 1: NES team witnessed implementation of Murma WSS in Murma village.*

## **B. OBJECTIVE 1- INCREASED SUSTAINABLE ACCESS TO SAFE DRINKING WATER AND WATER FOR PRODUCTIVE USES**





Photo [REDACTED] member of Cooperative after receiving water efficient fodder technology in Tila municipality of Jumla district.

## KEY ACHIEVEMENTS

- Concluded the last two Water Supply and Sanitation (WSS) schemes in Q2 initiated in Year 2, ensuring safe drinking water for an additional 594 members in marginalized and vulnerable communities during this reporting quarter. Notably, all 64 Year 2 WSS schemes, comprising of 57 drinking water systems and 7 multiple-use systems, have been successfully completed.
- Completed the detailed engineering surveys for 151 WSS schemes, with 21 surveys finalized this quarter. Additionally, accomplished the detailed engineering design, drawings, estimates, and Bill of Quantities (BOQs) for 147 WSS schemes.
- Completed the Detailed Project Report (DPR), Source Protection (SP) report, and Environmental Review Report (ERR) for 90 key WSS schemes, incorporating feedback from USAID Nepal Engineering Services (NES) Activity. These reports contain consolidated information for 126 WSS scheme construction in Y3.
- Secured cost-share commitments from all Local Governments (LGs) and collaborated with 22 LGs, leveraging [REDACTED] for the construction of 126 WSS schemes

in Year 3. Simultaneously, communities committed an in-kind contribution of 15-25% , equivalent to [REDACTED] for the construction of the 126 WSS schemes.

- Following meticulous selection processes, the Activity successfully chose construction subcontractors and granted the IQC subcontract for Water Supply Scheme Construction, Management, and Institutional Support. This includes Package 2 (Jumla and Kalikot), 3 (Kalikot), 6 (Surkhet), and 7 (Kailali). The Request for Task Order Proposal (RFTOP) was released to a selected group of IQC subcontract holders in the fourth week of December, with a submission deadline of two weeks.
- Issued a Request for Proposal (RFP) for open and comprehensive competition for packages 1 (Mugu), 4 (Dailekh), and 5 (Achham) utilizing the Lowest Price Technically Acceptable (LPTA) source selection method. The RFP has been publicly released on Jobs Nepal and local newspapers during the third and fourth weeks of December, with a submission deadline of January 7, 2024.
- The Request for Proposal (RFP) for nonlocal construction materials across all Year 3 packages (1 to 7) has been concluded and is now publicly available since the first week of January 2024, with a submission deadline of January 31, 2024.
- Successfully formed 115 WUSCs, supporting Year 3 WSS scheme construction and management. WSS registration in respective local governments is underway, including statute work, discussions with WUSC members, and document collection for registration and bank account opening.
- Two out of the six planned training events focusing on Gender Equality and Social Inclusion (GESI) and WASH Governance for LG representatives and staff were conducted in the Middle Karnali Watersheds.
- Two out of the four orientation programs for the One Water Steering Committee (OWSCs) were successfully conducted separately in the Tila and Rara Watersheds.
- A total of 13 out of 17 events, emphasizing Water User and Sanitation Committees (WUSC) governance, operation, and management, were conducted.
- Issued an RFP to solicit bids for training services to enhance the skills of Village Maintenance Workers (VMWs). The proposals are currently under evaluation.
- Prepared and rolled out training modules and materials covering 1) WUSC Governance, Operation, and Management Training (3 Days), 2) GESI & Governance Training (2 Days), 3) OWSC Orientation Program (2 Days), and 4) VMW Training (7 Days).
- The preparation meeting for co-creating the MUS Business Plan, along with data collection, is in progress for the Kariyapani MUS scheme in Barahatal. Simultaneously, meetings and data collection for the remaining nine scheme communities are underway. Turmakhad Rural Municipality in Achham has earmarked [REDACTED] to support the formulation of three MUS business plans within the municipality.
- Seven water schemes initiated in Y2 have been insured under the non-life insurance products offered by insurance companies. A total of 49 new construction and rehabilitation schemes have been insured for one year, surpassing the initial count of 42 insurances.
- The SBC capacity building module has been revised and integrated into 15 training sessions. Additionally, community-level activities have been organized in observance of Global Hand Hygiene Day and the 16 Days of Activism.

- Three radio PSA scripts related to water-saving practices, productive use of water, equitable access to water and menstruation hygiene management have been developed and endorsed. These are currently in the procurement process for their production and broadcasting.

## **INTERMEDIATE RESULT 1.1 UNIVERSAL ACCESS TO SAFE DRINKING WATER SUPPLY AT THE MUNICIPAL LEVEL ACHIEVED**

### **ACTIVITY 1.1.1 PRIORITIZE WATER INFRASTRUCTURE FOR KARNALI WATER ACTIVITY-SUPPORTED REHABILITATION AND CONSTRUCTION**

#### **FINALIZE SELECTION OF NEW AND/OR REHABILITATED DWS AND MUS INFRASTRUCTURE SITES FOR Y4**

The Activity identified 167 DWS (52 new and 115 rehabilitation), 35 MUS, and 30 source protection schemes to conduct the feasibility studies to initiate construction in Y4 in 22 LGs. The identification and feasibility studies of these WSS were based on the priority list and timeline of WUMP reports. Furthermore, the Activity Watershed team is working with the LG to secure a commitment for their cost leverage for Y4 before the feasibility study begins.

#### **CONDUCT FEASIBILITY STUDY AND SELECTION OF WSS SCHEME FOR Y4**

The Activity has finalized the WSS sub-engineers hiring, and mobilization plans to provide on-site technical assistance to conduct feasibility studies of the selected WSS schemes (167 DWS and 35 MUS). Of the WSS feasibility studies conducted in Year 3, 80 were not recommended for detail design and construction in Year 3 due to budget constraints. These feasibility studies will therefore be used for Year 4 construction after field verification and community, ward, and LG consultation.

### **ACTIVITY 1.1.2 SUPPORT THE CONSTRUCTION, REHABILITATION, AND UPGRADING OF WATER SUPPLY INFRASTRUCTURE**

#### **ESTABLISH CONTRACTS WITH A&E FIRM FOR DETAIL ENGINEERING SURVEY AND DPR PREPARATION SERVICES.**

Already completed and reported in the Q1.

#### **CONDUCT DETAIL ENGINEERING AND ENVIRONMENTAL SURVEY, FINALIZE SITE-SPECIFIC DESIGNS AND BASIC ORDER OF QUANTITIES (BOQS).**

The Detail Engineering and Environmental Surveys of 151 WSS schemes have been completed. Out of which, the surveys of 21 WSS schemes were completed in Q2. Furthermore, the site-specific detailed engineering design, drawings, estimates and bill of quantities (BOQs) for 147 WSS schemes were completed (Refer to Annex 1 for the detail list). The engineering team of USAID Karnali Water Activity has worked closely with the A&E firms to assess the validity of detail engineering and environmental survey works conducted by the A&E firm, and to finalize the detailed engineering designs, cost estimation, and BOQs for WSS/MUS.

## **COMPLETE ENVIRONMENTAL REVIEWS OF INFRASTRUCTURE PROJECTS**

Based on the site-specific designs and environmental assessments conducted during the detailed survey phase, the A&E firms have completed environmental review of infrastructure projects and prepared an Environmental Review Report (ERR), which includes the scheme-specific Environmental Management and Monitoring Plan (EMMP). The Activity team reviewed ERR reports along with the site-specific environmental review processes, providing quality assurance by verifying accurate and complete documentation and reporting. The Activity has completed the environmental review of 90 WSS schemes and finalized the ERR reports of all WSS schemes.

## **CONDUCT WATER QUALITY TESTING REPORTS FOR ALL SYSTEMS**

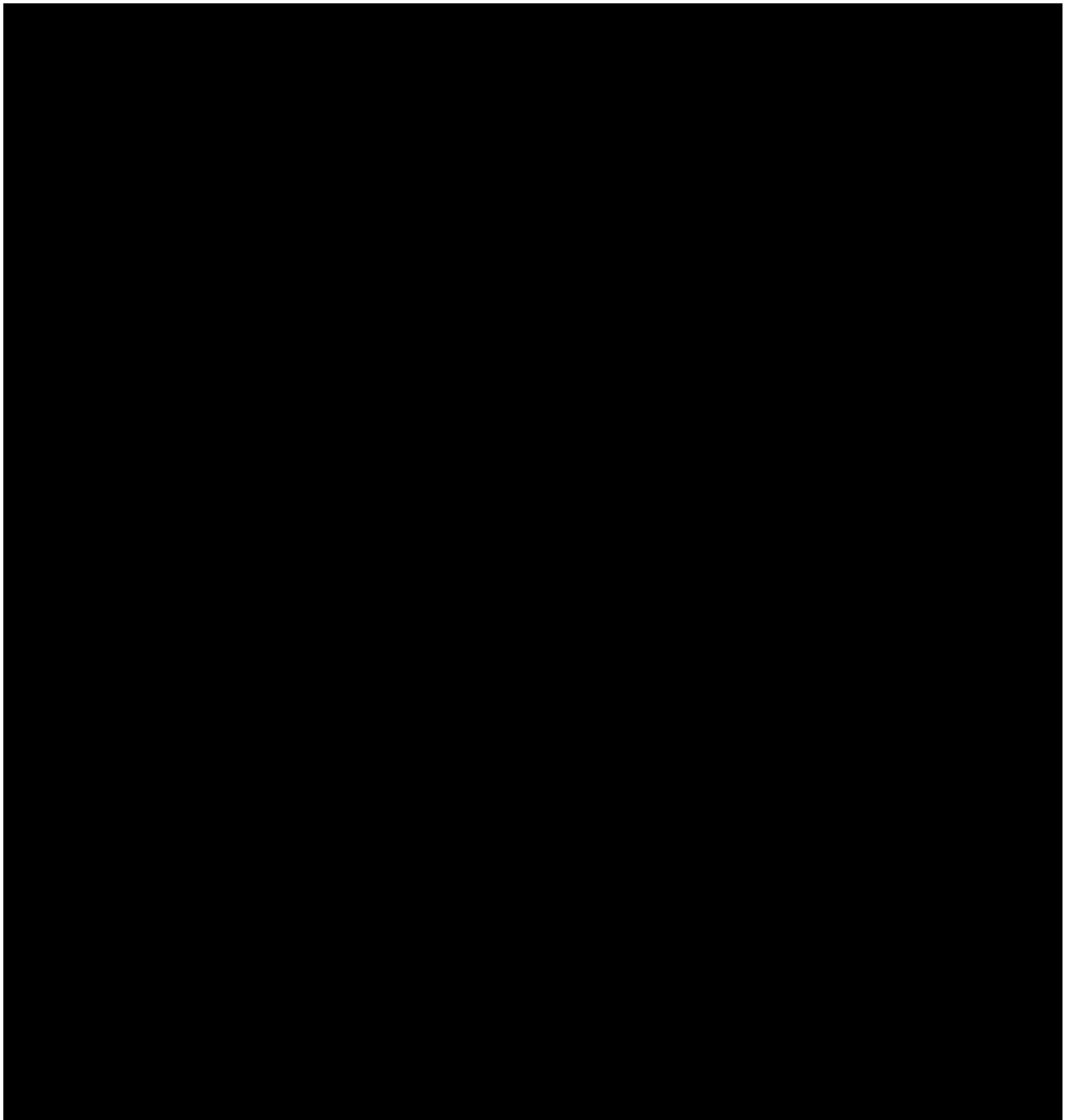
The Activity team has drafted a Water Quality Assurance Plan (WQAP), including drinking water and multiple-use water projects when applicable, in accordance with USAID guidelines. The WQAP will outline the Activity's method for ensuring water quality in projects involving the provision of drinking water and for meeting applicable GoN water quality standards, including requirements for initial testing and long-term monitoring. The Activity has completed the water quality testing from the 147-detail engineering survey completed WSS schemes, during the detail engineering survey. The water quality test report reveals meeting compliance with the GoN and USAID water quality standards.

## **FINALIZE DETAILED PROJECT REPORTS (DPRs)**

USAID Karnali Water Activity has received the 127 Detailed Project Reports (DPRs) with summaries, including ERR reports, along with soft copies of engineering designs (Excel workbooks, schematic drawings, and Bills of Quantity (BOQ)) incorporating feedback from USAID and the Karnali Water Activity. Among them detailed project report (DPR), source protection (SP) report, and environmental review report (ERR) for the Bistabada WSS scheme in Mugu, Mayakhola WSS scheme in Achham, Thulakhola WSS scheme in Kalikot and Bhitriban WSS scheme have been completed and shared with the USAID Nepal Engineering Services (NES) Activity team as a sample for their review and feedbacks. After receiving their feedback from the NES team, revisions were made, and the final versions were completed. Furthermore, DPR and ERR reports for 90 WSS schemes have been finalized, drawing guidance from the finalized sample reports. The details of DPR finalized WSS schemes has been presented in Annex I.

The Activity team shared the final BOQs from the DPR to the relevant LGs during the consultation meetings. Using these, a comprehensive breakdown of the roles, responsibilities, and resources among partners was deliberated and agreed upon for the cost-sharing agreements. These agreements include financing, labor, and commitment letters from municipalities. The Activity has secured

cost-share commitments from 20 of the planned 22 LGs. The breakdown of the cost estimate and cost-sharing commitments is as follows:



*Table 1: Cost sharing by the LGs.*

### **ESTABLISH IQC-TYPE CONTRACTS FOR CONSTRUCTION**

The Activity completed all processes to select the construction subcontractors, and awarded IQC subcontract for Water Supply Scheme Construction, Management, and Institutional Support for package 2 (Jumla and Kalikot), 3 (Kalikot), 6 (Surkhet) and 7 (Kailali). The Activity released the RFTOP for all package to limited IQC subcontract holders in the fourth week of December 2023 with the submission deadline of the second week of January 2024. The Activity decided to cancel the IQC subcontract procurement process for packages 1 (Mugu), 4 (Dailekh), and 5 (Achham) due to

the low number of competitive bidders under the IQC plan. The Activity has decided to issue an RFP for open and full competition for packages 1, 4, and 5 using the Lowest Price Technically Acceptable (LPTA) source selection method. The Activity released the RFP for all packages publicly on Jobs Nepal and in local newspapers in the third and fourth week of December 2023 with submission deadline of the second and third week of January 2024.

Likewise, the Activity completed all processes for selecting subcontractors for the supply and delivery of nonlocal construction materials for Year 3. The material RFPs for packages 1, 2, 3, 4, 5, 6, and 7 are completed and were made public in the last week of December 2023, with a submission deadline of the fourth week of January 2024.

### INITIATE, SUPERVISE, AND COMPLETE CONSTRUCTION

The Activity has completed the last two Water and Sanitation Schemes (WSS) schemes that were started in Year 2. These completed schemes provided safe drinking water to an additional 594 peoples during the reporting quarter. With this, all 64 WSS schemes initiated in Year 2 have been completed, including 57 drinking water systems (DWS) and 7 multiple-use systems (MUS).

S N	Name of Scheme	Location		System		HH Information			
				B/C/T/ S	Janajati	Dalits	Muslim	Other	Total
1	Dopka WSS (Lifting)	Barahataal RM, Surkhet	Electric	5	43	9	0	0	57
2	Chaura WSS (Rehabilitation)	Khandracharka M, Kalikot	Gravity	39		12			51

Table 2: List of completed DWS/MUS schemes in Q2, Year 3

### COMPLETE SCHEME INSURANCE

The Activity finalized insurance for all 49 WSS schemes, adding coverage for seven schemes during the reporting quarter. The initiatives include one-year non-life insurance of construction completed all WSS schemes to ensure financial backup to WUSCs for any unintended damage or loss of WSS structures from natural disasters or extreme weather conditions such as landslides, earthquakes, floods, thunderstorms, etc. through the private insurance company.

### COMPLETE CERTIFICATES OF ACCEPTANCE FOR PROJECTS

After the written requests from the Water Supply Scheme Construction, Management, and Institutional Support subcontractor (Subcontract II), Watershed Engineers and Sub Engineers conducted the final inspection and verification of the completed 64 WSS schemes construction sites after completion of the defect liability period. Based on the assessment recommendations and necessary improvement by subcontractor II, the inspection team will issue the final completion certifications for all completed schemes by the end of January 2024.



Photo 3: OWSC Orientation Program at Gamgadhi (4-5 Dec. 2023), Mugu

## IMPLEMENTATION OF THE CAPACITY DEVELOPMENT PLANS FOR LGS

The Activity successfully conducted two out of six training events of GESI and WASH Governance targeting the LG representatives and staff in the Middle Karnali Watersheds. A total of 48 participants including 50% female, 23% *Dalit* & 4.1% *Janajati* attended the events. The facilitator used different delivery methods through PowerPoint, group discussion and interactions. The remaining four events are scheduled for completion by the end of February 2024.

Likewise, the Activity conducted two out of four One Water Steering Committee (OWSCs) Orientations in the Tila and Rara Khatyad Watersheds. Out of the 33 participants, 30.3% of participants were female and 6% were from the *Dalit* community. The remaining two events are scheduled for completion by the end of January 2024. The participants included the Chairperson, Mayor, Vice Chair, Deputy Mayor, Chief Administrative Officer, and other stakeholder representatives.

## ACTIVITY 1.1.4 IMPROVE PLANNING, FINANCIAL SUSTAINABILITY, AND DELIVERY OF WATER SERVICE BY SERVICE PROVIDERS

### MOBILIZE AND ESTABLISH/RE-ESTABLISH WUSCs

To prepare for the construction and management of Year 3 WSS schemes across 22 Local Governments (LGs), a total of 115 Water User and Sanitation Committees (WUSCs) were established, along with the creation of 44 WUSCs during the reporting period. The Activity has ensured that these committees have a minimum of 50% representation from women and/or members of the *Dalit* and *Janajati* groups in key positions, such as chair, vice-chair, secretary, and treasurer. This approach has yielded positive results, with 52% of key positions held by women, 21% by *Dalits*, and 1% by *Janajati* representatives in the WUSCs.

## IMPLEMENTATION OF THE CAPACITY DEVELOPMENT PLAN OF THE WATER SERVICE PROVIDER (WUSCs)

The Activity successfully conducted a total of 13 out of 17 events focusing on WUSC governance, operation, and management during this reporting period. Altogether 354 participants including the WUSC chairperson, secretary, treasurer, maintenance workers, and WASH focal person of the LGs participated in the training events. Among them, 159 female, 65 *Dalit* and 36 *Janajati* participants attended the events.



Photo 4: WUSC Governance, Operation and Management Training at Khatyad RM (30 Nov-2 Dec. 2023), Mugu.

While delivering the training sessions, a variety of methods were applied such as lectures, discussions, games, case studies, role-playing, and interactive activities to accommodate different learning styles. In addition, the facilitator used local languages in order for the participants to easily understand the session contents including their roles, responsibilities, and scopes.

The initial feedback received from these training events is highly encouraging in terms of both immediate and long-term positive benefits. As an immediate benefit, the participants demonstrated a commitment by expressing their dedication to finalizing WUSC statutes and initiating the registration process in their respective Local Governments (LGs). Additionally, there was unanimous agreement to kickstart the collection of Operation and Management (O&M) funds and local materials. Looking towards the long-term benefits, the participants conveyed a strong commitment to ensuring the sustainability of the Water and Sanitation Scheme (WSS) right from the commencement of the scheme's construction. The remaining three events are scheduled to be completed by the third week of January 2024.

## CAPACITY DEVELOPMENT FOR VILLAGE MAINTENANCE WORKERS (VMWs)

A Request for Proposals (RFP) notice was issued to invite bids for the provision of training services aimed at enhancing the skills of Village Maintenance Workers (VMWs). Furthermore, a pre-bid conference was held on December 19, 2023. The proposals from potential bidders have been received, and the selection of the vendor is scheduled for mid-January 2024. The chosen vendor will be responsible for conducting five training events as part of this assignment, with all deliverables expected to be submitted by the conclusion of April 2024. The training program will target a total of



121 VMWs over a period of 7 days, placing a particular emphasis on improving their skills in the operation and maintenance of water supply schemes through hands-on practical sessions conducted at scheme construction sites.

## PREPARED TRAINING MODULE AND MATERIALS

Before training delivery, the Activity team together engaged preparation of the training module and materials. Following four kinds of training module and materials were prepared during this reporting period- 1) WUSC Governance, Operation and Management Training (3 Days), 2) GESI & Governance Training (2 Days), 3) OWSC Orientation Program (2 Days) and 4) VMW Training (7 Days). The respective thematic lead/objective lead was assigned to draft module /material and finalize it after receiving feedback and input from the entire technical team. The Activity will prepare and finalize the training module and materials for the refresher training on the NWASH System and WSS Compliance and Sustainability by February 2024.

Likewise, the preparation process for the training module and materials, which will be delivered through a subcontractor, is currently underway. Thematic leads and Watershed Advisors have been tasked with the responsibility of creating these materials. Once the module and materials are received, the next step will involve organizing a Training of Trainers (ToT) event for the subcontractor teams.

## INTERMEDIATE RESULT 1.2: PRODUCTIVE USES OF WATER ENHANCED FOR IMPROVED AGRICULTURE-LED GROWTH AND COMMUNITY RESILIENCE

### ACTIVITY 1.2.1 DESIGN AND CONSTRUCT MUS FOR VULNERABLE GROUPS

The Activity has identified and selected 21 MUS sites to construct in Year 3. Of these, detailed engineering surveys and design of all 21 schemes were completed in the reporting quarter. (This activity is being executed in conjunction with Activity 1.1.2, elaborated in the preceding section).

S N	Name of Scheme	LG	HH	Populations
1	Bistabada MUS	Chhayanath Rara M	33	183
2	Simkhola MUS (Sub Scheme I)	Tila Rural Municipality	18	108
3	Mathillo Budakot MUS	Tilagufa Municipality	35	208
4	Amanepani MUS	Naraharinath RM	45	388
5	Bharepata MUS	Khandachakra M	16	105
6	Gagnedi Meltali MUS (Main Scheme)	Khandachakra M	10	
7	Gahatboya MUS (Main Scheme)	Suvakalika RM	13	69
8	Chhelahanna MUS (Main Scheme)	Suvakalika RM	5	26
9	Tusarpani WSS(MUS)	Athabis M	38	252
10	Aaka Alaichibagar MUS	Athabis M	27	164
11	Raghuraya MUS	Athabis M	30	201
12	Serabada MUS	Kamalbazar	18	159
13	Thakhola Chanchane WSS (MUS)	Turmakhand	47	410

14	Khuputanikot WSS (MUS) (Sub Scheme II - Maspakhalne muhan)	Turmakhand	27	144
15	Khuputanikot WSS (MUS) (Sub Scheme IV - Uttishruk muhan)	Turmakhand	11	67
16	Gerupani MUS	Panchpuri M	15	94
17	Siman Gerupani MUS (Main Scheme)	Panchpuri M	24	129
18	Tareli MUS	Barahtaal RM	39	242
19	Syaule MUS (Main Scheme)	Barahtaal RM	81	436
20	Jhaparikhola MUS	Mohanyal RM	8	53
21	Tiule MUS	Mohanyal RM	47	47
	<b>Total</b>		<b>587</b>	<b>3485</b>

Table 3: List of MUS schemes planned for Year 3

### ACTIVITY 1.2.2 COORDINATE WITH USAID IMPLEMENTING PARTNERS AND OTHER FEED THE FUTURE (FTF) PROJECTS

#### Convene Coordination Meetings with Other USAID Activities

The Activity continued collaboration with different USAID and other stakeholders, detail of collaborative efforts is briefly described under J. PARTNERSHIPS, COLLABORATION, KNOWLEDGE SHARING.

### ACTIVITY 1.2.3 ENGAGE PRIVATE SECTOR TO IMPROVE MARKET VALUE CHAIN INPUTS, PROMOTE WATER-EFFICIENT TECHNOLOGIES, AND PROMOTE CROPS WITH GOOD MARKET POTENTIAL THAT REQUIRE LESS-INTENSIVE IRRIGATION

#### Develop WUSC-Level Sustainable Agricultural Value Chain Business Plans and Support Communities for MUS Business Plan Implementation

The Activity undertook a Value Chain Analysis (VCA) and created the MUS Business Plan for 10 WUSCs, specifically for Naulakot MUS, Kariyapani MUS, Odaltodke MUS, Pokharikanda WSS, Sisneri MUS, Dharapani Udhokhola MUS, Bijulekh WSS, Mathillo Khorke Khola MUS, Jukepani Palanga MUS, and Khamagoithe MUS, all aimed at establishing sustainable agricultural value chains at the WUSC level. With the assistance of international STTA, a comprehensive VCA report and guidelines for community-level co-creation workshops have been developed. The Activity intends to conduct these workshops following the completion of the detailed VCA report by the end of December 2023.

#### Karnali Water Challenge Launch

Executive Consulting Engineering and Planner (ECEP) and the WindPower Nepal have started to pilot their innovation in Lower Karnali and Tila watershed. ECEP has concept of floating wetlands to minimize water pollutants. By this reporting period, ECEP carried out two feasibility studies to identify appropriate floating wetland, while WindPower is launching hydroponic fodder production technology to promote water saving techniques for fodder production in the water scarce area of Karnali. Six demonstration greenhouses have been established and fodder production has been started. To ensure inclusivity, this initiative will collaborate with Himali Mahila Bachat Tatha Sahakari

Sanstha Limited, a local women's cooperative and it has obtained a support letter from Tila Rural Municipality, affirming local government endorsement.

## **INTERMEDIATE RESULT 1.3: SOCIAL NORMS AND BEHAVIORAL CHANGE FOR WATER SAFETY AND WATER CONSERVATION AT THE HOUSEHOLD LEVEL IN AGRICULTURAL PRACTICES ENHANCED**

### **ACTIVITY 1.3.1 DEVELOP SOCIAL BEHAVIOR CHANGE (SBC) STRATEGY, CAMPAIGN, AND CAPACITY-STRENGTHENING MEASURES FOR WATER SAFETY AND CONSERVATION**

#### **Launch SBC Campaign Challenge**

The USAID Karnali Water Activity's SBC Campaign Challenge is underway in three communities across Rara, Tila, and Middle Karnali Watersheds. Targeting 186 households in underserved communities in Mugu, the campaign, led by HIRYSDEC, emphasizes cluster level (tole) education and local government coordination. Key interventions prioritize water-saving behaviors, productive water use, and adoption of water-efficient technologies and menstrual hygiene management. By December 2023, 26 tole education groups have been established, conducting ongoing sessions with social mobilizers using developed modules. HIRYSDEC trained in tole education, GESI mainstreaming, and safeguarding, completed the SBC behavioral baseline survey for the three communities. Radio PSA scripts, crucial for the campaign, have been developed and shared with USAID for feedback. Additionally, HIRYSDEC organized a community-level event in Ema, Chhayanath Rara, and Mugu, focusing on Gender-Based Violence during the 16 Days of Activism, in collaboration with the municipality.

#### **Water Champion Community Approach**

To establish model villages collaboratively with communities and emphasize behavioral priorities, 12 communities are designated as Water Champion Community implementation areas. This participatory strategy involves community members adopting water-efficient agricultural technologies, supported by market linkages and technical assistance from Local Government (LG). The initiative focuses on water-saving practices, productive water use, and mainstreaming Gender Equality and Social Inclusion (GESI), prioritizing water source protection and biodiversity conservation. This collaboration includes community members, LGs, farmers' groups, cooperatives, model farmers, agro vets, and other stakeholders. We've developed a concept note and proceeding document, initiating collaboration with LGs for leverage sharing. This holistic approach integrates capacity development, establishes market linkages, provides technological support, encourages cross-learning, and explores collaboration opportunities for small-scale agricultural production through construction subcontractors.

#### **SBC and Outreach Activities in Communities, LGs, and Day Celebrations**

The SBC capacity building module is updated, drawing from last year's experiences, and tailored for WUSC members. It aims to orient and capacitate households and communities, fostering an environment for ideal behaviors recommended by the Activity. This module, integrated into 15 sessions this period, includes 13 WUSC Governance and Operation sessions at the local government level and two OWSC training events at the watershed level, utilizing gaming elements and a

participatory approach. For SBC campaign and outreach, numerous community activities marked Global Hand Hygiene Day 2023. These involved disseminating crucial handwashing information, demonstrating proper steps, and organizing 26 activities for the 16 Days of Activism Against Gender-Based Violence. Of the participants, 45% were females, and around 33% represented Dalits and marginalized communities.

### **Production of IEC/BCC Materials and Mobilize Mass Media**

Mass Media plays a crucial role in reaching communities. Three radio PSA scripts related to water-saving practices, productive use of water, equitable access to water and menstruation hygiene management, have been developed and endorsed by USAID. The RFP for the production and broadcasting service provider has been announced, and the procurement process is underway. Moreover, USAID Karnali Water Activity received SBC and GESI materials, documents, modules, and field-based information from BHAKARI. These will support the activity, preventing redundancy in design and production. An event was organized to hand over these materials as BHAKARI closed in December 2023.

## **C. OBJECTIVE 2- INCREASED SUSTAINABLE ACCESS TO AND USE OF SANITATION THROUGH FSM**



*Photo 5: Panchपुरi: SWM site.*

### **KEY ACHIEVEMENTS**

- 500B completed topographic survey and prepared a draft design report for the Dullu FSTP.
- 500B conducted household and institutional surveys in Chhayanath Rara.
- 500B completed ward-level focused group discussions (FGD) in Panchapuri, Chamunda Bindrasaini, and Chhayanath Rara under the Sanitation Situational Analysis. Additionally, a field survey of contaminants for the Q&Q study has been conducted in these municipalities.
- Urban Park and USAID Karnali Water Activity signed an agreement for the FSTP scoping study, as per USAID requirements and IEE as per GoN regulations. The inception report was approved by the Activity's team on December 8, 2023.
- Urban Park completed field-level environmental assessment, public consultation, and public hearings between December 12-18, 2023, for FSTP scoping.
- Urban Park conducted a public hearing event in Dullu Municipality on December 17, 2023.

## **INTERMEDIATE RESULT 2.1: SAFE MANAGEMENT OF SANITATION THROUGH FECAL SLUDGE ACHIEVED**

### **ACTIVITY 2.1.1 - CONDUCT CITYWIDE SANITATION PLANNING EXERCISES THAT INCLUDE FSM, CITY DRAINAGE, AND SOLID WASTE SYSTEMS**



In the early period of Q2 in Year 3, the household and institutional survey was initiated to collect data to inform City Sanitation Plan (CSP) process in Chhayanath Rara Municipality. Simultaneously, ward-level FGDs and Q&Q studies were conducted in Chhayanath Rara, Chamunda Bindrasaini, and Panchapuri municipality, conducting a total of 9 FGDs and assessing 75 containments (refer to Table 3 for details). Currently, these findings are being consolidated into sanitation status reports tailored for each municipality.

Furthermore, ongoing discussions are actively progressing to explore potential interventions in the CSP municipalities. These interventions involve developing FSM bylaws, implementing capacity-building initiatives for local masons to ensure the construction of standardized containments, establishing a safe manual and semi-mechanical emptying system service, and investigating funding mechanisms for containment upgrades among others. The primary aim is to elevate sanitation infrastructure and practices in the targeted municipalities.

S N	Municipality	Total FGDs	Participants by Ethnicity			Participants by Sex		
			Dalit	Janajati	BCTS	Women	Men	Total
1.	Panchapuri	3	13	6	20	21	18	39
2.	Chamunda Bindrasaini	3	13	2	24	14	25	39
3.	Chhayanath Rara	3	6	0	31	20	17	37

*Table 4 Details of FGD participants*

## ACTIVITY 2.1.2 – DESIGN, CONSTRUCT AND STRENGTHEN MANAGEMENT OF FSTPS TO MEET LOCAL STANDARDS, BUILDING CODES, AND REGULATIONS

### FSTP Scoping Study in Dullu Municipality

The field-level study for the FSTP scoping statement has been completed. FGD/KII and community consultations with project-affected communities, women's groups, Dalit groups, youth groups, etc., took place. Similarly, the FSTP public hearing was organized. Mayors/Chairpersons, Deputy Mayors/Vice-chairpersons of the three municipalities, municipal officials, project-affected communities, stakeholders along with Activity senior management participated in the public hearing event. Key issues identified during the assessment include:

- LG committed to constructing an access road in writing but hasn't started yet. The LG presented three options, and the mayor pledged to initiate access road construction soon.
- Project-affected communities have grievances with LG for not prioritizing other development works, including roads, water supply, and electricity. Additionally, the municipality itself has few households requiring desludging for the FSTP.

Nine FGD events, 30 KIIs, and one public hearing event were conducted during the scoping study, with 204 participants (159 males and 45 females). Regarding the progress sharing of the scoping study in FSTP, a meeting was organized at the Kathmandu office between the Activity's team and the Urban Park team.

The design team and scoping team held a meeting on December 29, 2023, to discuss the Dullu FSTP design reporting at the Kathmandu office.



Photo 7: DCoP [redacted] putting remarks about the Activity (left) and public hearing participants (right).

## Design of Dullu FSTP

500 B prepared design report of FSTP, following the topographic survey of the Dullu FSTP site. A 4 cum/d capacity plant based on planted drying beds has been designed with anaerobic filter, planted gravel filter and polishing pond as its other modules. The plant is estimated to cover an area of around 1,400 sqm of land including the internal roads and support facilities. The proposed master plan is presented in Annex II. The cost estimate along with the specification is being developed as part of the Detailed Project Report (DPR) preparation.

## INTERMEDIATE RESULT 2.2: FINANCIAL SUSTAINABILITY FOR FSTPs DEVELOPED

### ACTIVITY 2.2.1 SUPPORT LOCAL GOVERNMENT IN THE DEVELOPMENT OF BUSINESS PLANS FOR FSTPS

No developments have been made in the Q2 of the Year 3. The Activity will mobilize subcontractors in the next quarter to develop business plans for the Dullu FSTP and the other FSM interventions.





*Photo 8: Panchapuri FGD*

## **D. OBJECTIVE 3- STRENGTHENED GOVERNANCE FOR SUSTAINABLE RESILIENT MANAGEMENT OF WATER RESOURCES**



*Photo 9: WASH Bill draft sharing workshop and community consultation meeting held in Panchapuri M Surkhet.*

## KEY ACHIEVEMENTS

- The Activity submitted a final version of the Provincial-level WASH Bill to the Ministry of Water Resources and Energy Development in Karnali province.
- The Activity team conducted community consultations in Panchapuri Municipality and Mahawai Rural Municipality for feedback solicitation during the reporting quarter, totaling four events.
- The Activity team organized Bill drafting committee meetings in Panchdewal Binayak, Thandikanth, Panchapuri, and Lamkichuha to share the WASH Bill outline.
- The Activity drafted WASH Bills for Madhuwan, Ramaroshan, Panchdewal Binayak, Thandikanth, Lamkichuha, and Panchapuri.
- The Activity team supported LGs in the finalization of WASH Bills, incorporating feedback from the validation workshops, for Madhuwan, Ramaroshan, Panchdewal Binayak, and Thandikanth.. The Activity submitted finalized Bills to the respective LGs for approval and endorsement from the Municipal Assembly.
- Rajapur Municipality endorsed the Water User Master Plan (WUMP), aiming to support the strengthening of WASH governance and equitable planning.

## **INTERMEDIATE RESULT 3.1: POLICY AND REGULATIONS FOR WRM DEVELOPED/IMPROVED AT THE WATERSHED LEVEL**

### **ACTIVITY 3.1.1 DEVELOP POLICIES AND REGULATIONS FOR IMPROVED WATERSHED-LEVEL WATER RESOURCE MANAGEMENT (WRM)**

#### **Support to Municipalities to Develop Drinking Water, Sanitation and Hygiene Bills**

In this quarter, six Local Governments (LGs) have drafted WASH bills with technical support from the Activity. These LGs include Madhuwan, Ramaroshan, Panchdewal Binayak, Thandikanth, Lamchichuha, and Panchapuri. Notably, the enacted WASH Acts incorporate elements of gender equality and provisions for marginalized groups. Validation workshops were conducted in Madhuban Municipality, Ramaroshan Rural Municipality, Panchdewal Binayak Municipality, and Thandikandth, where participants provided valuable feedback and suggestions. This feedback has been integrated into their respective WASH Bills. To initiate the new WASH Bill drafting process, two community consultation events have been completed in Mahawai Rural Municipality. Out of the total 21 WASH Bills drafted thus far, 13 WASH Bills, including the latest one from Chakuney, have been published in the LG's official gazette.

#### **Support Karnali Province to Formulate Province Level WASH Act**

The final version of the Provincial-level WASH Bill was submitted to the Ministry of Water Resources and Energy Development of the Karnali province. The WASH Bill was subsequently circulated to a broader platform of relevant WASH stakeholders for review and input. The Activity team is currently incorporating the feedback provided. The revised Bill will be presented at the provincial-level workshop scheduled for January 19, 2024, for validation and finalization before the endorsement process by the Provincial Assembly.

## **INTERMEDIATE RESULT 3.2: INSTITUTIONAL CAPACITY AND GOVERNANCE OF EXISTING SERVICE DELIVERY ORGANIZATIONS ENHANCED**

### **ACTIVITY 3.2.1- DEVELOP/STRENGTHEN INSTITUTIONAL MECHANISMS FOR WATERSHED MANAGEMENT AND COORDINATION AT ALL LEVELS**

The Activity has successfully supported the development of all 29 LG WUMP reports in Y2. As there was no official Government of Nepal (GoN) guideline for the WUMP formulation and implementation, the Activity initiated and conducted a meeting with GoN/DWSSM to discuss developing national WUMP guideline and incorporating SSA data. The fifth Project Steering Committee (PSC) meeting resulted in a decision not to develop national WUMP guideline in the federal context. Instead, SSA data will be integrated into the N-WASH system.

### **ACTIVITY 3.2.2 - STRENGTHEN COORDINATION AND CAPACITY FOR WATER SUPPLY SERVICE DELIVERY**

#### **Draft Statute of Drinking Water and Sanitation Organizations**

The Activity is assisting LGs to develop and enact WASH Bills, which will formalize and institutionalize WUSCs for local WASH governance and equity. All the WUSCs formed to manage water schemes in Year 3 will be registered under respective LG's WASH Act.

### Contributions to Province-level WASH Coordination Committee

The Activity provided technical support to draft the outline of the Karnali Province's WASH Bill and shared it with the Bill drafting committee, which includes the members of provincial WASH units. This engagement will enhance institutionalization and strengthening of WASH coordination among stakeholders in the province. The Bill drafting committee has conducted two meetings and collected feedback from committee members. The Activity will support the Karnali provincial government to share the draft Bill with a wider group of stakeholders at an upcoming workshop on January 19, 2024.

## E. OBJECTIVE 4- STRENGTHENED CONSERVATION OF WATER-RELATED WATERSHED BIODIVERSITY



Photo 10: OWSC facilitation at Tila Watershed.

### KEY ACHIEVEMENTS

- The Activity conducted two events of One Water Steering Committee (OWSC) orientation in Tila and Rara watersheds, involving Mayors, Deputy Mayors, and other OWSC members representing the Sub-Watershed Management Committee (SWMC) and government line agencies.
- A&E firms completed detailed engineering surveys, designs, drawings, and estimates for all 50 Source Protection Schemes, along with the source protection reports.
- Rupantaran Nepal prepared a draft report on the Integrated Watershed Management Plan (IWMP) of the Rara watershed. The IWMP process in four watersheds included 27 Municipality Level meetings, seven Ward meetings, 51 community-level Focus Group Discussions (FGD), and 47 Key Informant Interviews (KII).
- The Activity conducted detailed assessments for the Payment for Ecosystem Services (PES) in three prioritized sites: Ramaroshan Lake and the associated area of Achham, Simlegard sub-watershed of Kalikot, and Jyamire sub-watershed of Kailali district. Ecological evaluation and PES assessment data were analyzed to prepare an ecological evaluation report.

## **INTERMEDIATE RESULT 4.1 WATER CATCHMENT AREAS WELL PROTECTED AND MANAGED FOR BIODIVERSITY AND SUSTAINABLE WATER SERVICES**

### **ACTIVITY 4.1.1 SUPPORT THE IDENTIFICATION OF ECOLOGICALLY SIGNIFICANT AREAS TO CONSERVE BIODIVERSITY AND WATER**

#### **Migrate SSA Data in N-WASH-MIS**

The Activity and the Department of Water Supply and Sewerage Management (DWSSM) agreed to migrate Spring Source Assessment (SSA) data into the National Water Sanitation and Hygiene (N-WASH) Management Information System (MIS). The Activity is preparing a shapefile to provide 11,841 SSA data to integrate into the N-WASH portal. A meeting between the Activity and the DWSSM was held focusing on how to migrate spring source assessment (SSA) data in the N-WASH-MIS portal. The Activity team presented SSA data and agreed to upload SSA data after providing the shape file.

### **ACTIVITY 4.1.2 SUPPORT THE ESTABLISHMENT AND MAINTENANCE OF ECOLOGICALLY SIGNIFICANT AREAS TO CONSERVE BIODIVERSITY AND WATER**

#### **Institutionalize One Water Steering Committee (OWSC) and Sub-Watershed Management Committee (SWMC)**

The Activity conducted two events in the Tila and Rara watersheds. Participants of the workshop were Mayors/Chairpersons, Deputy Mayors/Vice Chairpersons, and other OWSC members. The orientation aimed to bring together members of the water steering committee to share perspectives on promoting Integrated Water Resource Management (IWRM) in Karnali province. A comprehensive discussion on WASH, IWRM, and the imperative for integrated water resource management was organized. The Activity drafted procedural guidelines in consultation with OWSC and organized discussions and finally accepted the guidelines with some revisions. OWSC members expressed their commitment to endorsing best practices in water conservation and efficiency, aiming to reduce water wastage and pollution.

#### **Integrated Watershed Management Plan (IWMP) Preparation**

The Activity developed a scope of work (SOW) to create Integrated Watershed Management Plans (IWMP). Rupantaran Nepal was competitively selected to develop IWMPs for four watersheds. The primary objective is to formulate comprehensive plans for effective watershed management and identify ecologically significant areas. Collaborative efforts with One Water Steering Committees (OWSC) and Sub-Watershed Management Committees (SWMCs) members are integral to this process. Rupantaran Nepal facilitated the IWMP preparation, with support from the Watershed Team and local government representatives, identifying priority interventions and specific actions for watershed management.

Rupantaran Nepal submitted an inception report in October 2023, followed by field-level consultations in November. Subsequently, Rupantaran Nepal submitted a progress report and draft IWMP for the Rara Khatyad watershed in December 2023. The Activity organized a meeting on November 3, 2023, along with the International Water Management Institute (IWMI), to incorporate

relevant findings from the 'Hydrological Modeling Analysis Report' into the IWMP. IWMI provided the report, re-aggregating hydrological modeling data required for IWMP.

Rupantaran Nepal piloted municipality-level consultations, community-level focus group discussions (FGDs), and Key Informant Interviews (KII) in Barahatal, Panchapuri, and Chaukune municipalities on November 21-22, 2023. Discussions on environmental net gain and loss, specifically for soil, water, and forest resources, were conducted based on guiding checklists. Issues and impacts on natural resources due to livelihood activities and infrastructure development, climate change impacts on the local level, and possible interventions were documented. The checklist was updated and customized based on feedback from the three municipalities, and consultations were conducted in the remaining municipalities. The process involved 27 Municipality Level Meetings, seven Ward level meetings, 51 community-level FGDs, and 47 KIIs. The IWMP report is anticipated to be finalized by February 2024. A meeting on November 3, 2023, in collaboration with IWMI, focused on integrating pertinent findings from the 'Hydrological Modeling Analysis Report' into the IWMP, with IWMI providing crucial hydrological modeling data.

Rupantaran Nepal conducted municipality-level consultations, community-level focus group discussions (FGDs), and Key Informant Interviews (KII) in Barahatal, Panchapuri, and Chaukune municipalities on November 21-22, 2023. The discussions centered on environmental net gain and loss, specifically related to soil, water, and forest resources, guided by checklists. Issues, such as the impact of livelihood activities, infrastructure development, local-level climate change, and potential interventions, were documented. The checklist was updated based on feedback from these municipalities, and similar consultations were held in other areas. This comprehensive process included 27 Municipality Level Meetings, seven Ward level meetings, 51 community-level FGDs, and 47 KIIs.

Watershed	No. of Participants/Respondents											
	Sex		Ethnicity						Age Group (Year)			Person w/ Disability
	Male	Female	B/C/T/S	Dalit	Janajati	Newar	Muslim	Other	>15	15-29	30+	
Lower Karnali	121	100	67	35	112	0	0	7	0	21	200	0
Middle Karnali	161	32	162	26	3	2	0	0	0	39	154	1
Tila	99	45	136	6	2	0	0	0	0	13	131	0
Rara Khatyad	31	29	58	2	0	0	0	0	0	13	47	0
<b>Total of 4 Watersheds</b>	<b>412</b>	<b>206</b>	<b>423</b>	<b>69</b>	<b>117</b>	<b>2</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>86</b>	<b>532</b>	<b>1</b>

Table 5: Disaggregated data of participants of the community and municipal level consultations

### **Survey, Design and Construct Spring Sources Protection Schemes**

A&E firms completed all 50 detailed engineering surveys, drawings, layouts and estimates for source protection schemes. These springs were identified through SSA and prioritized in WUMPs. Source protection reports for all 50 spring sources have been prepared. Nepal Engineering Services reviewed four reports, one for each watershed, and provided feedback on the detailed project report (DPR), environmental review report (ERR) and source protection (SP) report. The Activity incorporated NES feedback before finalizing the DPR, ERR, and SP reports and resubmitting for approval. The survey design and implementation of spring source protection schemes were aligned with Activity I.1.2.

### **Developing and Implementing Integrated Business Models of Payment for Ecosystem**

The Activity is developing concise business models for Payment for Ecosystem Services (PES), covering priority site selection, ecological evaluation reports, and cost-revenue assessments. Evaluation factors include demand for ecosystem services, PES potential, supportive institutional mechanisms, and willingness to pay, with a focus on addressing water insecurity in downstream communities. Through a consultative process, the Activity identified three potential PES sites in three watersheds. In-depth assessments, supported by international STTAs, enhanced PES business planning. Land use land cover (LULC) maps for all three sites were prepared, and ongoing consultations are addressing ecological goods and services (EGS) and cost-revenue analysis (CRA).

Orientation sessions were held in Ramaroshan Municipality in September and Simlegard & Jyamire sub-watershed in October 2023. Local governments and communities expressed enthusiasm for PES business plans, with Ramaroshan Rural Municipality and Khandachakra Municipality ready to establish policies and contribute matching funds. Workshops engaged upstream and downstream communities in PES priority sites in the Middle Karnali, Tila, and Lower Karnali Watersheds. The Activity is currently consolidating and reviewing data for an evaluation report on the ecological services of these three priority sites.

## **F. CROSSCUTTING CONSIDERATIONS**

### **GENDER EQUALITY AND SOCIAL INCLUSION (GESI)**



Photo 11: Social map preparation for detailed engineering survey and WUSC formation of Chauratha kotbada WSS of Mahawai RM in Kalikot district.

In this quarter, GESI Action Plan after incorporation of the feedback from USAID was approved and the Activity now has a final approved GESI Action Plan to refer to ensure inclusion of the most marginalized communities in each intervention across all four objectives. The GESI team oriented all Activity staff on the finalized GESI Action Plan.

**Objective 1:** The representation of female and marginalized communities is remarkably noticeable in the water user committees. Women and marginalized communities are not only members of the WUSCs now but also leaders, with more than 60% of vital positions occupied by them. Similarly, the representation of Dalit communities and ethnic minorities is also proportional. Out of the 57 WUSCs formed in this quarter, all WUSCs have at least 2 vital positions occupied by females. The overall composition of WUSCs can be summarized in the table below:

Total number of WUSC	Total number of executive committee members	Female as executive member	Total number of leadership positions	Women or marginalized in the leadership position	WUSCs chaired by female
57	461	276 (60%)	226	157 (69%)	2

Table 6: Overall composition of WUSC

The events for the formation or reformation of the WUSC accommodated a significant number of female participants. The overall participation of women in these events is 45%, with Dalit communities contributing 23%. Additionally, 25 individuals with disabilities participated in the event.



Women have now been integrated into the sustainability of water structures, with an outstanding number willingly taking on the responsibility of being village maintenance workers. To safeguard and sustain the proposed 57 schemes for this quarter, 82 VMWs have been selected across all four watersheds, with 34 of them being female.

Architectural and Engineering Firms conducted the social survey, assessing 9,503 households, revealing that almost 700 individuals had some form of disability. Consequently, USAID Karnali Water Activity prioritizes accessibility features, including accessible location and ramps in public water taps. The location of the household tap was chosen in consultation with the person with disability (PWD) in the household, and the height and platform size of the water tap were designed so that the person with disability could easily access, open and operate it. In the case of an institutional tap, multiple faucets of varying heights have been installed to allow children, PWD and elderly people to easily access. The designs are flexible enough to accommodate an appropriate ramp, which will be provided during the construction of the water tap as per the specific need.

The SBC component of the project directly or indirectly contributes to gender and social inclusion. In this reporting period, the GESI team reviewed the SoW for the baseline survey of the SBC Challenge Communities with GESI perspectives. Input provided in the baseline questionnaires included specific questions on menstrual hygiene management and the engagement of men and boys in domestic workload sharing. For the selection of water champion communities for extensive SBC interventions, one of the criteria is a WUSC led by women. Thus, among the two communities selected in Rara, one named Bistabada MUS scheme is led by women.

**Objective 2:** GESI integration can be observed in a series of activities such as focus group discussions, including FGDs with women, Dalit communities, and Dalit women groups, along with other stakeholders for the scoping study of FSTP at Dullu. Similarly, three separate events of ward-level FGDs for the sanitation situation assessment at Chhayanathrara municipality were held with a significant number of female participants. The overall participation of females across these three FGDs is 54%, involving six representatives from Dalit communities and four persons with disabilities.

**Objective 3:** WASH Governance and GESI integration complement each other effectively. In this reporting period, 5 LGs enacted the WASH Bills. During the LG level WASH Bill Outline sharing workshop, a remarkable 45% (13/29) of participants were females, and 2 individuals from the Dalit Community also took part in this crucial phase of the WASH Bill formulation process. Similarly, in the LG level WASH Bill consultation workshop at Panchapuri and Lamkichuha municipalities, 33 out of 43 participants, including a woman with a disability, actively engaged in the discussion. Furthermore, separate consultation meetings were conducted with women and Dalit groups. Across the four community consultation events held at Panchapuri and Lamkichuha municipalities, a total of 75 women and 35 representatives from the Dalit community were consulted to ensure the inclusion of issues affecting marginalized communities.

In conjunction with governance content, LG stakeholders from the two municipalities received orientation on GESI. The two-day training involved elected representatives, sectoral unit representatives, GESI focal persons, and WASH focal persons from the municipalities. At the conclusion of the training, participants made commitments to implement the WASH Bills, integrate

GESI in development activities, and allocate proper budgets for policy development, specifically focusing on dignified menstruation management in the municipality.

**Objective 4:** As part of institutionalizing the OWSCs and as an initial step towards drafting the Integrated Water Resource Management Plan, two-day workshops were held in Rara Khatyad and Tila watersheds. The workshops included detailed GESI sessions with the aim of sensitizing key government and non-government stakeholders in the water sector, such as mayors, chairpersons, deputy chairpersons, and other OWSC members. The GESI sessions primarily focused on the importance of involving women and marginalized groups in water management, emphasizing the differential impact of water scarcity on these groups.

The communities of the identified PES sites were oriented on PES. In total, 24 out of 44 female and 16 out of 44 Dalit community members participated in the PES orientation. Ongoing in-depth assessments aim to enhance PES business planning, incorporating evaluations of resource use by ethnic minorities and ensuring equitable economic benefit sharing among them.

Furthermore, a draft IWMP for the Rara Khatyad watershed has been prepared through a subcontractor. The plan integrates socio-economic analysis and outlines strategies to mainstream women and marginalized groups in water resources conservation. The IWRMP preparation process involves extensive consultations with women and marginalized groups. The subcontractor presented data gathered through numerous consultations and FGDs across all four watersheds, with women and Dalit community representation at 33% and 11%, respectively.

**Capacity Building:** During this reporting period, 13 WUSC Governance Operation and Management Training events were conducted for WUSC members, and 2 GESI and Governance training events were held for LG representatives as the primary capacity-building initiatives. Additionally, 2 watershed-level OWSC orientation events were conducted. The GESI sessions in all three types of events included discussions on the GESI concept, the importance of GESI in the water sector, and equitable access to water.

**GESI Monitoring and Learning:** As part of the learning process for the Activity, an assessment was conducted to determine how many women and marginalized communities benefited economically from the WSS construction works in Year 2. According to the income tracking sheets submitted by WSS construction subcontractors in the four watersheds, the findings were as follows:

Category	Number
Skilled construction workers - Men	359
Skilled construction workers - Women	3
Unskilled construction workers - Men	1528
Unskilled construction workers - Women	1176
Men with Disability	3
Women with Disability	2
Single Women	20
Single Men	10

*Table 7: Women and marginalized communities benefitted economically due to the WSS construction.*

The GESI guiding checklists mandate reaching at least 33% of women construction workers, and this analysis reflects that we have been able to reach 43.5% of women construction workers.

Furthermore, it also indicates a negligible number of women in skilled construction roles.

- Field monitoring of the social survey for the Detail Engineering Survey, concerning GESI, was conducted in wards 9 and 6 of Panchapuri Municipality. It was found that household surveys and community first meetings align with the forms and formats provided by the Activity, involving gender and social inclusion assessment questionnaires. More than 50% of female participation, including over 80% of households, is observed in the community first meetings for the detail engineering surveys.
- Field-level observation and monitoring of WUSC formation, from GESI perspectives, took place in Chaukuney Rural Municipality. The observation revealed the formation of a very inclusive committee in terms of gender and ethnicity. A representative from the Dalit community led the WUSC with 55% women as executive members of the committee. Among the two VMWs selected, one is a female VMW.
- To ensure that each training or orientation is gender-sensitive, staff from the USAID Karnali Water Activity have been implementing various affirmative actions. These include provisions for caretakers in the orientation and the distribution of sanitary pads and diapers to create an enabling environment for women to participate in the training or orientations.

#### **Coordination and Collaboration:**

- The GESI team collaborated with Karnali Alliance for Dignified Menstruation Management (KADMM) to organize a provincial Dignified Menstrual Management (DMM) Workshop, involving Deputy Mayors from 27 Karnali municipalities. The goal was to develop a DMM declaration paper, challenging social malpractices during menstruation.
- The Activity had a meeting and explored possibilities for collaboration with Phase Nepal in the Rara watershed to improve livelihoods for single women, people with disabilities or their family members, and returnee migrant workers through employment opportunities in the upcoming water supply construction.
- The Activity observed the 16 Days of Activism against Gender-Based Violence at all levels, conducting various events like orientations, marches, and information sharing. The initiative garnered commitments from community and municipal representatives against gender-based violence.



Photo 12: KADMM Dignified Menstrual Management workshop inaugurated by Social Dev Minister of Karnali Province held in Surkhet between October 9-10, 2023.

## MONITORING, EVALUATION, RESEARCH AND LEARNING (MERL)



*Photo 13: Under PEA process, group is mobilized to conduct KII and FGD with existing WUSC, ward representative, mother's group, and schoolteachers.*

**Revision of Activity MEL plan:** The MEL plan has been revised based on discussions and feedback from USAID Mission DQA conducted in September 2023. The plan has been revised in consultation with all technical and objective leads and DAI home office, with reference to USAID's updated indicator handbooks.. The plan has been submitted to USAID Nepal for further action.

**PPR and DIS reporting to USAID:** The Activity has prepared and submitted the Performance Plan and Report (PPR) for all 34 indicators. In the report, the team updated the actual of each indicator of FY 2023 and targets were set for FY 2024 and FY 2025. Based on the PPR, reporting of all indicators was completed in DIS of USAID.

**Supporting in project implementation:** The MEL team supported field-level activities across all watersheds. These activities included WUSC formation and reformation, WUSC governance, operation and management training, Gender Equality and Social Inclusion (GESI) training, OWSC meetings, WASH bill consultation meetings with local government, and Multiple-Use Services (MUS) data collection. The team supported the collection of data and information for PES, site selection, and workshop facilitation in four Watersheds. The MERL team facilitated the focus group discussions, key informant interviews, and data entry for the PES, and collection of PES story.

**Orientation on MEL system including DAI Collect:** A&E firms were oriented on the MEL systems including DAI Collect and Data Quality Assurance. This orientation made them aware of the tools, methodologies, and processes involved in effective data collection, management, and analysis.

**Supported Social Behavior Change Campaign (SBC) Baseline:** The Activity supported the finalization of the SBC baseline design mainly methodology and development of tools. The baseline team was trained on DAI collect questionnaires and its methodology to collect quality data following

USAID data quality standards and ethical considerations. The tool has been uploaded into DAI Collect and monitored on a real-time basis.

The baseline survey data have been collected from targeted municipality of three watershed namely Rara, Tila and Middle Karnali Watershed. Before preparing the report, the data were validated in the DAI Collect system, analyzed, and provided to the grantee for report preparation. Furthermore, the team provided support to the grantee to prepare the baseline report and followed-up accordingly. The baseline report is being prepared.

**Political and Economic Analysis (PEA):** The Watershed teams, including Watershed Advisors, Watershed Coordinators, and M&E and Communication Coordinators, participated in a two-day, in-house workshop at the Surkhet office. During the workshop, the team focused on developing a better understanding of PEA and revisited its methods and tools. Additionally, the team created a field assessment plan and data collection checklist for LGs, Water User and Sanitation Committees (WUSCs), and mother groups. On the second day, the team divided into three groups and conducted field practice in Panchapuri RM. Reflecting on the learnings from the field experience, the team developed a Watershed-level field assessment plan to update PEA for Quarter 2.

**Communications and visibility of the Activity:** The digital copy of the second bi-monthly newsletter for the Activity was distributed to the USAID Nepal Development Outreach and Communications (DOC) team, the USAID Learning for Development team, and DAI's Nepal team. Key highlights from the Year 2 activities have been compiled for team review, submission to the Home Office, and are currently awaiting final approval from USAID.

Various international days, such as Global Handwashing Day and the 16 Days Campaign against Gender-Based Violence, were leveraged to amplify the impact the activity has had in the community through DAI's social media channels. To ensure the continuous dissemination of updates, the information is also shared in DAI's internal weekly bulletins to keep everyone informed about the recent progress and the activities.

**Data collection and validation:** During the reporting period, the MEL team reviewed DAI Collect forms for year three and validated data of 10 forms into DAI Collect. The table below presents the type of data collected with a description and the number of data submissions.

SN	Title in DAI Collect	Description	Total data submissions
1	WSS Completion Data	It includes social, institution and major structures with GPS location of the scheme completion area. Drinking water beneficiaries and institutions are verified and reported based on this form.	616
2	Partner NGO Event Report	It includes event data that is implemented by NGO partners mainly trainings, orientation, meetings, and workshops.	240

3	Detail Engineering Survey	It includes social, institution and major structures with GPS location of all schemes to inform for DPR preparation.	4373
4	Sanitation Situation Assessment-HHs and Institution	It includes sanitation information of the area selected for City Sanitation Plan and FSM schemes. It is collected by 500B.	3252
5	WUSC Record	It includes information of the executive committee members of the water users and sanitation committees (WUSCs) formed in FY 2024.	964
6	Committee and Individual Record	It includes different committees formed by USAID Karnali Water Activity like OWSC, SWMC, CSP Task Force, WASH Bill Drafting Committee, IWRM, & others. It also includes VMW information but not WUSC formed.	136
7	Training Participant Record	It includes disaggregated information of the different capacity building trainings and activities organized by USAID Karnali Water Activity.	445
8	USAID Karnali Water Activity: SBC Campaign Challenge 2023/024 – HIRYSDEC	It includes different activities/events organized by HIRYSDEC as a part of SBC Campaign.	1
9	USAID Karnali Water Activity: Partner Data Entry Form	It includes different activities organized by short term grantees, sub-contractor, and vendors.	2
10	USAID Karnali Water Activity: Event Data Entry for All Year	It includes information of all the events/activities organized by USAID Karnali Water Activity.	88

Table 8: Data from the DAICollect

**Event Data Validation:** During the reporting period, the Watershed team, in support of technical and objective leads, conducted 88 events: 28 in Middle Karnali, 25 in Lower Karnali, 24 in Rara, and 11 in Tila. Events include training, workshops, meetings, orientations, and discussions. 72 events were organized under Objective 1, four events under Objective 2, eight events under Objective 3, and four events under Objective 4 were organized.

**Detail Engineering Survey Data Validation:** The survey analyzed 138 water supply schemes, covering 3984 households, 312 water structures, 39 schools, and 8 healthcare facilities. The data has been validated by M&ECCs and technical staff and prepared separate data analysis report. The report has been shared to all Activity staff which has been useful in finalizing the DPR and designing estimates for water schemes in year III.

DES survey	Total data	Total scheme	HCF	School	HH	Water Structure
Tila	1583	43	2	18	1456	96
Rara	597	21	2	8	533	51
MK	1191	47	1	6	1089	85

LK	1002	27	3	7	906	80
Total	4373	138	8	39	3984	312

Table 9: Data from the DAICollect

## POLITICAL ECONOMIC ANALYSIS (PEA)

### Lower Karnali

The Activity has been pivotal in formulating and endorsing WASH Bills across various municipalities. Progress includes completing the final draft for Madhuwan Municipality and ongoing drafting for Lamkichuha and Panchapuri Municipalities. Despite budget uncertainties affecting certain schemes in specific municipalities, the Activity actively explores strategic measures to support local governments.

Administrative challenges have caused delays impacting the Activity's commitment to target delivery, yet consistent communication with local governments has maintained positive relations. Accomplishments include WUSC formation, capacity-building events, and commitment letters from LGs for matching funds. Challenges lie in obtaining updated commitments based on the latest estimates, as seen in Mohanyal RM. Unsuccessful FSTP construction plans and budget limitations for Terai's medium-scale rural schemes raise concerns about potential project implementation.

Reductions in the number drinking water supply schemes in some LGs may lead to discontent, impacting future support requests. The timely exploration of suitable FSM interventions is crucial to achieve contractual deliverables of Year 3, and potential difficulties in managing time during the winter municipal assemblies pose upcoming challenges. Despite obstacles, the Activity remains hopeful and continues to address issues proactively.

### Middle Karnali

Local Governments (LGs) within the working areas hold high expectations from the USAID Karnali Water Activity to address water schemes outlined in the Water Use Master Plan (WUMP). While LGs express positivity in allocating leveraged funds for water schemes, multi-faceted challenges emerge. Limited resources compel the Activity to postpone large schemes, impacting community perspectives. Internal conflicts among LG members, intensified by the scheme selection process, lead to opposition from wards not covered by water schemes. The economic activities of Middle Karnali Watershed communities, primarily agriculture and seasonal migration, pose potential challenges, emphasizing the need for timely construction activities.

Several hurdles, such as shortages of skilled labor and delays in enacting the WASH Bill by LGs, further complicate project implementation. Source depletion and potential disputes arising from cross-LG water source usage add complexities. Conflicts among LG elected members may reduce allocated leverage funds, urging coordinated efforts to settle disputes before scheme finalization. Support for WUMP integration into LG annual plans, periodic joint monitoring visits, and the institutionalization of Water User and Sanitation Committees (WUSCs) is crucial for sustainability. Additionally, promoting public hearings, social audits, and facilitating WUSC registration processes at the LG level are highlighted as essential measures. To address internal conflicts, strict adherence to inclusive policies for WUSCs is recommended. The USAID Karnali Water Activity must advocate for



scheme insurance, learning from successful initiatives in Turmakhand Rural Municipality, and collaborate frequently with LGs for resource alignment. Despite challenges, the commitment of nine LGs to allocate leverage funds signifies a collaborative effort for successful WASH scheme implementation in the Middle Karnali Watershed.

### **Tila Watershed**

In this quarter, Tila Watershed identified 36 water supply schemes for Year 3 construction. The detailed engineering survey and design estimates were completed, and discussions with LG representatives ensued to secure funds and community contributions. Commitments include a 20% in-kind contribution from the community and a 24% cash commitment from LGs, with the USAID Karnali Water Activity covering the remaining costs.

Consultations during the LG-level planning meeting confirmed an average 24% contribution from LGs towards the estimated scheme costs, showcasing their effective ownership in the construction process. Despite LG representatives expressing interest in WASH Bills and Integrated Water Resource Management, limited genuine efforts from political leadership are evident. The USAID Karnali Water Activity is actively supporting WASH Bill development in Khandachakra M, Tilagufa M, and Tila RM, with Mahawai Rural Municipality progressing through legislative committee meetings and forming a drafting committee. Suvakalika RM and Naraharinath RM will draft their WASH Bills in the next quarter of Year 3. The development of Water Use Master Plans (WUMP) in various municipalities has received endorsement through executive meetings, reflecting a recognition of water management's importance. However, due to the high cost of WUMP prioritized schemes in the area, the Activity will construct smaller sized schemes, causing dissatisfaction among LG officials. LG officials, especially the Mayor and Deputy Mayor, wish to construct larger schemes giving priority to their own clusters or wards, even if they entail higher costs.

### **Rara Watershed**

The Activity initially planned 21 water supply schemes across three local governments, but due to budget constraints, they've scaled down to implementing 16 schemes in Year 3. Challenges arise in finalizing the number of schemes, as local governments are eager to implement all, reflecting the need for strategic alignment with limited resources. Issues persist with WUSC formation, including role changes and a lack of dedicated staff. While WSS construction progresses, challenges like fund release delays and resource duplication in provincial schemes persist. The time is opportune for material transportation, however, if material procurement and construction of the scheme are delayed, a challenge of finding qualified labor will arise when male members of the community migrate seasonally to India for labor work. The absence of male WUSC members also poses a challenge to ensure community contribution. Successful conflict resolution in some WUSCs highlights the importance of community dialogue.

The Activity faces a crucial opportunity to align with LG priorities for WSS scheme construction, ensuring effective resource utilization. Legal provisions for OWSCs and the implementation of IWRM plans present further opportunities for clarity and efficient management. However, community reluctance in WUSC involvement requires addressing the current implementation approach. The summary emphasizes the need for strategic alignment, transparent processes, and community engagement for successful water supply scheme implementation in the Karnali region.

## OVERALL IMPLICATIONS FOR THE ACTIVITY

- Ongoing hurdles related to the FSTP land approval process hinder LG activities resulting in no construction activities in 7 LGs of Kailali and Bardiya impacting coordination between LGs and Karnali Water Activity.
- The primary economic activities in Middle Karnali watershed LGs, such as agriculture, wages, and seasonal migration, pose challenges to project interventions, emphasizing the need for timely construction.
- Issues with the formulation of WUSC, including informal influence by elected ward chairs and postponed meetings if WUSC members are not in favor.
- Lack of awareness among LGs about allocated funds from the province and federal government, leading to a lack of coordination and deviation from planning processes, causing disputes.
- Varied modalities for implementing WSS schemes among LGs, with differences in budget limits and resource allocation, affecting the overall progress of the Activity.
- Struggles within LGs, especially when chair and council members are from opposing parties, leading to delays in council meetings and hindering leverage fund allocation for WASH schemes.
- High political influence in the formation of WUSCs, with some positive initiatives, but concerns about personal benefits and potential corruption in scheme selection and resource allocation.
- LG representatives prioritizing schemes for their constituencies, potentially leading to resource duplication and misuse without genuine WSS needs, raising concerns about corruption.

## G. OPERATIONS

### STAFFING/RECRUITMENT

Hiring and retaining staff continued to be a top priority and challenge for the Activity. As of the end of this reporting period, there were 53 active Long-Term Technical Assistance (LTTA) staff members: 13 in Kathmandu, 22 in Surkhet, and 15 in four watershed offices. The current staff composition includes 8 females and 42 males. The tables below provide an overview of staff recruitment, onboarding, resignations, STTA hires, and positions under recruitment for this quarter.

LTTA STAFF – ONBOARDED				
SN	NAME	POSITION	OFFICE LOCATION	START DATE
1	[REDACTED]	Grants and Procurement Coordinator	Kathmandu	02 October 2023
2	[REDACTED]	Finance Assistant	Surkhet	01 November 2023

LTTA STAFF – RESIGNED				
SN	NAME	POSITION	OFFICE LOCATION	Effective DATE

1	[REDACTED]	GESI Director	Kathmandu	October 15, 2023
2	[REDACTED]	Finance and Administration Manager	Kathmandu	October 29, 2023
3	[REDACTED]	Watershed Engineer	Lower Karnali Watershed	December 15, 2023
4	[REDACTED]	Governance and Law Advisor	Surkhet	December 15, 2023
5	[REDACTED]	Watershed Engineer	Rara Watershed	January 1, 2024
6	[REDACTED]	Strategic Communications and Learning Director	Kathmandu (The Employment Agreement concluded on December 31, 2023).	January 1, 2024

### STATUS OF POSITIONS UNDER RECRUITMENT

SN	POSITION, LOCATION	STATUS	TARGET START DATE
<b>LTTA</b>			
1	Water Supply and Sanitation Sub Engineers (9 Positions)	Out of the nine top candidates, eight have signed the employment agreement, and one candidate opted not to accept the offer. We are currently in the process of reaching out to an alternative candidate for EBD collection and reference checks.	January 2, 2024 January 15, 2024
2	GESI Director (Kathmandu)	The top candidate has accepted the job offer and received USAID approval so she will begin work on March 1, 2024.	March 1, 2024
3	Watershed Engineer (Lower Karnali)	A job vacancy was posted on JobsNepal on November 23, 2023, with an application deadline set for December 3, 2023. We received a total of 148 applications, and the 10 candidates are shortlisted for further assessment	February 1, 2024
4	Watershed Engineer (Rara Watershed)	The management team decided to select a candidate for this position from the applications received in response to the job posting for Watershed Engineer Lower Karnali.	February 1, 2024
5	Finance Officer (Kathmandu)	The top candidate turned down the offer, prompting the consideration of extending it to an alternative candidate.	February 6, 2024
<b>STTA</b>			
1	Technical Editor	The technical editor's written test completed, and the hiring process is now in progress.	January 15, 2024

## ADMINISTRATION AND LOGISTICS

The team has consistently supported the daily administrative, logistical, and operational tasks of the Kathmandu, Surkhet, and Watershed Offices as needed. In addition to their regular operational

responsibilities, the team has taken on roles related to overseeing the logistics and finances of various events, workshops, and meetings as required by the program.

## FINANCE AND BUDGET INFORMATION

Major activities during this quarter included:

- The USAID Karnali Water Activity has obtained a VAT refund of [REDACTED] from the Inland Revenue Office (IRO) for the April to June 2023 period, out of the total claimed amount of [REDACTED].
- The Activity has completed its business renewal in the local ward office for the fiscal year 2080.81 (2023/2024).
- The Karnali Water Activity is in the process of submitting a VAT refund claim amounting to approximately [REDACTED] for the period from July to November 2023. The request is scheduled to be submitted to USAID by the second week of January 2024.
- The external audit for DAI Global LLC, Nepal branch, covering the fiscal year 2079/2080 (July 15, 2022, to July 16, 2023), is currently underway. The consolidated financial statement has been completed and is in the process of being signed.
- The Activity’s expenditure for this quarter is presented below:

Month	Actual Expenditure
October 2023	[REDACTED]
November 2023	[REDACTED]
December 2023	[REDACTED]
TOTAL	[REDACTED]

## PROCUREMENT

In Year 3 Quarter 2, the procurement team of the Activity awarded 36 purchase orders amounting to [REDACTED] to support office operations, administration, and logistics.

## H. SUBCONTRACTS AND GRANTS UNDER CONTRACT

### SUBCONTRACTS AND TASK ORDERS – ONGOING AND IN THE PIPELINE

In Year 3 Quarter 2, the Activity awarded Task Order 6 to 500B Solutions for detailed technical Survey. The table below provides details of the Task Orders issued to 500B and the obligated and disbursed amounts from July 2022 to December 31, 2023.

N O	TOTAL	CONTRACT TYPE	OBLIGATION AMOUNT (USD)	DISBURSEMENT (USD)	STATUS / REMARKS
I	Develop Six City Sanitation Plans (CSPs)	IQC Task Order	[REDACTED]	[REDACTED]	Completed and closed

2	Develop Two Fecal Sludge Treatment Plant (FSTP) Business Plans	IQC Task Order			Ongoing
3	Provide feasibility services, detailed engineering designs and other supporting services for two FSTPs	IQC Task Order			Ongoing
4	Develop One (1) Citywide Sanitation Plan (CSP) in Madhuban Municipality	IQC Task Order			Completed and closed
5	Developing five Citywide Sanitation Plans (CSPs)	IQC Task Order			On-going
6	Detailed technical Survey, Design and DPR of Dullu FSTP	IQC Task Order			On-going

In this quarter, the project awarded two purchase order for Scoping Statement for Fecal Sludge Treatment and Development of Integrated Watershed Management Plan (IWMP) of four Watershed. This table presents the purchase order and subcontract issued from October 1, 2023, to December 31, 2023, and status of on-going subcontract with total disbursement.

N O.	SUBCONTRACTOR	TITLE	CONTRACT TYPE	OBLIGATION AMOUNT (USD)	DISBURSEMENT (USD)
1	Rupantaran Nepal	Development of Integrated Watershed Management Plan in Four Watersheds	Purchase Order		
	Urban Park Pvt. Ltd	Scoping Statement for Fecal Sludge Treatment	Purchase Order		
2	Scholars Consult Pvt. Ltd.	Developing Detail Design and Detail Project Report (DPR) Services for drinking water systems, multiple-use water systems and source protection systems at RARA Watershed	Subcontract		
3	Executive Consulting Engineering and Planner Pvt. Ltd.	Developing Detail Design and Detail Project Report (DPR) Services for drinking water systems, multiple-use water systems and source protection systems at Lower Karnali Watershed	Subcontract		
4	Strength Engineering Company Pvt. Ltd.	Developing Detail Design and Detail Project Report (DPR) Services for drinking water systems,	Subcontract		

		multiple-use water systems and source protection systems at Middle Karnali Watershed			
5	Niyatra Consult Pvt. Ltd.	Developing Detail Design and Detail Project Report (DPR) Services for drinking water systems, multiple-use water systems and source protection systems at Tila Karnali Watershed	Subcontract		
6	Himali Rural Youth Social Development Center (HIRYSDEC)	Water Supply Scheme Development, Management, and Institutional Support in Mugu District	Subcontract		
7	Human Rights and Environment Development Center (HuRENDEC)	Water Supply Scheme Development, Management, and Institutional Support in Kalikot District	Subcontract		
8	Social Empowerment and Building Accessibility Centre (SEBAC Nepal)	Water Supply Scheme Development, Management, and Institutional Support in Achham District	Subcontract		
9	Social Awareness and Development Association (SADA)	Water Supply Scheme Development, Management, and Institutional Support in Kailali District	Subcontract		
10	Sharada	Water Supply Scheme Development, Management, and Institutional Support in Surkhet District	Subcontract		
11	Suryodaya Urja Pvt Ltd	Supply, Delivery, Installation, Testing and Commissioning of Solar and Electrical Pumping Systems	Subcontract		
12	Himali Rural Youth Social Development Center (HIRYSDEC)	Water Supply Scheme Rehabilitation, Management, and Institutional Support in Mugu	Subcontract		
13	Human Rights and Environment	Water Supply Scheme Rehabilitation,	Subcontract		

Development Center (HuRENDEC)	Management, and Institutional Support for Kalikot
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In addition, the Activity has awarded Indefinite Quantity Contract (IQC) subcontracts to the following organizations for Water Supply Scheme Construction, Management, and Institutional Support for packages 2, 3, 6 & 7.

Selected Subcontractor	Awarded Package
<b>HURENDEC</b>	Packages 2 (Jumla and Kalikot) & 3 (Kalikot)
<b>SAPPROS</b>	Packages 2 (Jumla and Kalikot) & 3 (Kalikot)
<b>MPDS</b>	Package 7 (Kailali)
<b>Sharada</b>	Packages 6 (Surkhet) & 7 (Kailali)
<b>Local Concern Group</b>	Package 6 (Surkhet)

## GRANTS – ONGOING

In Year 3 Quarter 2, the Activity modified the grant issued to Himali Rural Youth Social Development Center (HIRYSDEC) under G-KAT-004 on 30 October 2023 after receiving approval from the USAID COR as a change was made to the initially proposed location for the implementation of activities. This table presents the grant status from July 1, 2023, to December 31, 2023.

Grant No.	Grantee	Grant Title	Amount (USD)	Disbursement (USD)	Status / Remarks
<b>G-KAT-002</b>	WindPower Nepal Pvt. Ltd.	Karnali Water Challenge (Water-efficient Fodder production technology to enhance livelihood of climate vulnerable communities)	██████	██████	Payment for Milestone I report has been made, and the implementation of Milestone-2 activities is underway.
<b>G-KAT-003</b>	Executive Consulting Engineering and Planner Pvt. Ltd.	Karnali Water Challenge (Floating Wetland- A Solution to Karnali Water Challenge)	██████	-	The report for Milestone I has been submitted and is presently undergoing technical review. Meanwhile, activities for Milestone II are in the implementation phase.
<b>G-KAT-004</b>	Himali Rural Youth Social Development Center (HIRYSDEC)	Promoting Water Secure and Dignified Menstrual Hygiene Friendly Behavior	██████	-	Milestone I report submitted and approved for payment. Milestone -2 activities under implementation.

## I. CHALLENGES AND PROPOSED REMEDIES

- Due to the heterogeneous nature of participation in the training events, the participants' understanding levels were observed to vary from poor to well-understood. Consequently, the facilitator should utilize a diverse range of teaching methods, such as discussions, games, case studies, role-playing, and interactive activities, to cater to different learning styles. Additionally, the facilitator should consider using local languages (if possible) to explain session contents, ensuring easy comprehension.
- The legalization of the One Water Steering Committee (OWSC) and the implementation of the One Water Approach require various strategies. These include regular follow-ups, capacity building on the One Water Approach, advocacy for bill amendments at local, provincial, and federal levels, and institutionalizing the Sub-Watershed Management Committee (SWMC).
- Despite the Activity prioritizing women in each intervention, involving them as skilled construction workers is challenging due to lack of prior technical skills and the absence of construction skills transfer programs, such as mason training, this year.
- The GESI Action Plan and GESI guiding checklists direct that our interventions involve 50% women in all community activities and 33% in events involving local government stakeholders. While some interventions exceed the 50% female participation target, other activities limit female participation to less than 50% in community events and less than 33% in local government-level events, often due to predefined government positions.
- Fecal sludge treatment plant (FSTP) couldn't be implemented in proposed LGs due to the delay in land acquisition. Similarly, overhead tank schemes that were assumed to be constructed with the partnership of Rotary International (RI) remained uncertain. Due to these logistical and budget constraints, none of the construction activities proposed in the seven LGs of Lower Karnali are feasible. This has created challenges in maintaining trust with LGs and the implementation of soft activities including support in WASH Bill formulation.
- A&E Subcontractors are delivering reports of poor quality for the Water Supply and Sanitation (WSS) scheme design, estimates, Environment Review Reports (ERR), and Detailed Project Report (DPR), causing delays. Consequently, the technical team has had to invest additional time and effort in mobilizing Subcontractors' personnel, providing on-site guidance, and revising documents due to the substandard quality of their work and reports.
- The delay in submitting deliverable reports by Subcontractors, and subsequently the delay in the Activity technical team's field verification, has led to a delay in paying the subcontractors.
- Water Supply and Sanitation (WSS) schemes incur higher estimated construction costs. To address the increased construction costs, the Activity relies on the commitment of local governments and communities, both in cash and in-kind, to initiate the planned schemes. The project's completion is heavily dependent on funding from local governments and community contributions. Any delay in funds from local governments or reluctance from the community to contribute may impede construction progress. On the other hand, due to budget constraints, the Activity chose smaller-sized schemes from WUMP priority list for implementation, which are often not the LGs' first choice (larger, more expensive schemes having top order priority in WUMPs), which has resulted in minor dissatisfaction of Mayors/Chairs. The Activity is discussing implementing the remaining schemes where the DPR is already prepared in Year 3.



## J. PARTNERSHIPS, COLLABORATION, KNOWLEDGE SHARING



Photo 14: Participants of the fifth project steering committee meeting held in Kathmandu on 29<sup>th</sup> December.

### Collaboration with the Government

WASH Cluster Meeting organized by the Ministry of Water Resources and Energy Development (Karnali Province) on 19 December 2023 with the participation of key stakeholders, including USAID Karnali Water Activity's representative. The Ministry presented earthquake damage data, highlighting 592 damaged water schemes, 42,830 household toilets, and 279 public toilets.

WASH priorities emphasized rehabilitation, maintenance, and repair of water supply infrastructure in the recovery phase, stressing the urgent need for safe water. Decisions included establishing and strengthening the LG WASH unit, prioritizing the WASH Cluster and WASH Act formation, and streamlining development activities in collaboration with DDMC and LGs.

The meeting suggested incorporating input for the proposed WASH Bill from the LG leads before organizing the Provincial level stakeholders' consultative meeting. Additionally, USAID Karnali Water Activity was also requested to draft a working procedure for the Scheme Operations and Management Fund, including the mobilization of technical staff to support the VMW (Village Maintenance Worker). Moreover, USAID Karnali Water Activity offered technical support for training sessions on the operation, maintenance, and sustainability of water schemes and also offered expertise in training related to Water Safety Plans and WASH at the provincial level organized by the Ministry.

### Project Steering Committee Meeting

The USAID Karnali Water Activity recently convened its project steering committee meeting on December 29, 2023, in Kathmandu, with [REDACTED], Secretary of the Ministry of Water Supply, Government of Nepal, serving as the chair. The meeting aimed to achieve several objectives, including sharing the progress of the USAID Karnali Water Activity for Year 2 & Year 3, seeking

feedback and guidance on implementation, and ensuring alignment with Government of Nepal priorities and plans. In his closing remarks, [REDACTED] highlighted challenges related to energy generation in the catchment of the Karnali Water Basin and emphasized the need for collaboration, particularly with the Water and Energy Commission Secretariat (WECS). He provided updates on areas such as Multiple Use Services (MUS), land acquisition issues related to forests, and the implementation of Fecal Sludge Management (FSM) and Fecal Sludge Treatment Plant (FSTP). [REDACTED] stressed the importance of collaboration, mutual understanding, and highlighted the positive momentum generated by the enthusiasm for the WASH Bill in the province. He expressed appreciation for the active participation, formally closed the meeting, and emphasized the crucial role of the remaining time in supporting livelihoods in the project's work areas.

## **Collaboration with USAID Implementing Partners**

### **USAID Biodiversity Activity**

A meeting took place between USAID Karnali Water Activity and USAID Biodiversity (Jal Jangal) to discuss Annual Work Plans and explore collaboration opportunities. Key collaboration points include implementing green infrastructure, formulating an Integrated Watershed Management Plan, sharing insights on Payment for Ecosystem Services, aligning policy work for watershed and biodiversity governance, promoting Social and Behavioral Change, coordinating with the private sector for Multi-Use of Water System, capacity building of local governments, and sharing reports and learning documents.

### **225 Working Group**

The Activity actively contributed to the working group, which meets regularly, has mapped the working area, and is exploring areas of collaboration in the future. The 225 Working Group meeting, held at the USAID Biodiversity Activity Office, included USAID Nepal officials and representatives from various USAID Implementing Partners (IPs). The meeting aimed to share information on diverse earthquake response activities supported by different USAID Implementing Partners (IPs). Twenty-three participants, including [REDACTED] (ERO Deputy Director), [REDACTED] (Resilience Specialist), [REDACTED] (Resilience Specialist), [REDACTED] (ERO Director), and [REDACTED] (Development, Outreach and Communications Lead) from USAID, were present. During the meeting, IPs were requested to present their contributions to recent earthquake responses. The Deputy Chief of Party (DCOP) and Water, Sanitation, and Hygiene (WASH) Program Support and Development Specialist (WSSPSD) from USAID Karnali Water Activity reported on a survey conducted in the Activity's working area. Urgent needs were addressed by encouraging IPs to communicate with their respective Contracting Officer's Representative (COR) or Agreement Officer's Representative (AOR). [REDACTED], coordinator of the 225 Working Group, presented the IPs' working municipality map, and new/missing IPs were collectively agreed upon for addition to the record. Urgent needs were addressed by encouraging IPs to communicate with their respective Contracting Officer's Representative (COR) or Agreement Officer's Representative (AOR). [REDACTED], coordinator of the 225 Working Group, presented the IPs' working municipality map, and new/missing IPs were collectively agreed upon for addition to the record.

### **BHAKARI**

The Activity team attended the closing event of USAID BHAKARI managed by Mercy Corps on December 15, 2023. This event expanded our network, fostering connections with various teams

involved in USAID activities and representatives from USAID Nepal, including the Mission Director, [REDACTED]. It provided valuable insights into organizing dissemination events efficiently, featuring presentations showcasing real-life scenarios from the intervened community. This firsthand account underscored the importance of our work and served as a learning opportunity for the team on effective event planning and communication strategies.

BHAKARI and USAID Karnali Water Activity are two projects designed by USAID for safe drinking water, productive use of water, agri inputs, source protections, and other priorities for building resilient communities. Both projects operate in the Karnali River Basin and its surrounding LGs from Karnali and other provinces. With BHAKARI closing by the end of 2023, an event was organized by BHAKARI to hand over SBC materials and other documents supporting the Activity for continuation and backstopping activities. The event represented collaborative efforts of the SBC teams from both projects, fostering cross-learning. The handing over meeting was attended by CORs and COPs of both the Activities and the DCOP and other staff from the USAID Karnali Water Activity.

### **USAID Agriculture Inputs Activity**

A collaborative meeting between USAID Agriculture Inputs Activity (Winrock International) and USAID Karnali Water Activity aimed to foster introductions and explore potential collaboration for the productive use of water. Key participants included the Chief of Party (COP) and Deputy Chief of Party (DCOP) of Agriculture Input, as well as the DCOP, Senior Associate of Karnali Water, and Contracting Officer's Representatives (CORs) from both projects. The DCOP of Karnali Water presented an overview of the project's working areas, plans, and progress, while the COP of Agriculture Input provided insights into their project's status. Agriculture Input has identified specific working districts, with Surkhet, Kailali, and Bardiya overlapping with the Karnali Water Activity. A consensus was reached to prioritize working municipalities aligned with the Karnali Water Activity. Regular meetings were agreed upon to foster information sharing between the activities. Post-meeting, the DCOP of Karnali Water promptly shared a list of working municipalities in the three overlapping districts with the COP and DCOP of Agriculture Input, reflecting a commitment to effective collaboration and coordination between the two projects. A meeting between USAID Karnali Water Activity and USAID Biodiversity (Jal Jangal) in November, discussed Annual Work Plans and explored collaboration opportunities. Key points of collaboration include implementing green infrastructure, formulating an Integrated Watershed Management Plan, learning and sharing concerning Payment for Ecosystem Services, aligning policy work for watershed and biodiversity governance, promoting Social and Behavioral Change, coordinating with the private sector for Multi-Use of Water System, capacity building of local government, and sharing reports and learning documents.

## **K. LEARNING AND RESULTS OF ANALYTIC WORK, ASSESSMENTS AND EVALUATIONS**

During this quarter, the primary focus of the Activity was on preparing for the effective implementation of the Year 3 Annual Work Plan (AWP). Additionally, attention was directed towards the finalization of Water Supply and Sanitation (WSS) schemes based on the priorities outlined in the

Water Use Master Plans (WUMP). Feasibility studies and detailed engineering surveys were conducted to facilitate the construction of WSS in Year 3.

The Watershed and Technical teams' field experiences provided valuable insights, some of which are elaborated below:

- Successful drafting and validation of WASH Bill for Madhuwan Municipality, showcasing legislative progress.
- Ongoing efforts in drafting WASH Bills for Lamkichuha and Panchapuri Municipalities, emphasizing the commitment to strengthening WASH governance.
- Achievements in WUSC formation, capacity-building, and securing commitment letters from LGs for matching funds, demonstrating positive outcomes.
- Challenges in obtaining updated commitments in municipalities like Mohanyal RM, highlighting budget uncertainties.
- Concerns over non-successful FSTP construction plans and budget limitations for Terai's medium-scale rural schemes raise concerns about potential project implementation.
- Reductions in the number of schemes in some LGs may impact future support requests, indicating challenges in project implementation.
- Ongoing exploration of suitable FSM interventions for Objective 2 contractual deliverables and potential time management difficulties during the winter Assembly pose upcoming challenges.

## **L. MAJOR ACTIVITIES PLANNED FOR NEXT QUARTER**

The Activity plans the following tasks, by objective and operational area, during its next quarter of implementation.

### **OBJECTIVE I – INCREASED SUSTAINABLE ACCESS TO SAFE DRINKING WATER AND WATER FOR PRODUCTIVE USES**

- Finalize Selection of new and/or rehabilitated DWS and MUS Infrastructure Sites for Y4
- Conduct Feasibility Study and Selection of WSS Scheme for Y4
- Complete Environmental Reviews of Infrastructure Projects
- Finalize Detailed Project Reports (DPRs)
- Select Construction Subcontractors and Establish Contracts for Construction
- Select subcontractor for non-local construction material supply and delivery at construction sites.
- Select solar subcontractor for supplying solar equipment, installation of solar lift WSS schemes.
- Establish Cost-Share Agreements with LGs, WUSCs and Construction Sub-Contractors.
- Initiate Construction of WSS schemes
- Complete construction of DWS, MUS and source protection schemes and complete certificates of acceptance for projects after Defect Liability Period (DLP).
- Establish, register, and mobilize WUSCs for scheme construction and management activities.

- Implementation of the training activities of the CD Plan of the LGs
- Implementation of the training activities of the CD Plan of the WUSCs and conduct training events for VMWs.
- Conduct ToT event to the subcontractor team to roll out the training activities of the WUSCs. Initiation of the ICA process guideline.
- Continue SBC Campaign Challenge and rollout Water Champion Community Approach.
- Production of Radio PSA and Mobilize FM Radio stations.
- Rollout community level SBC orientation and capacity building activities and demonstrate water-efficient technologies at the community-Level.

## **OBJECTIVE 2 – INCREASED SUSTAINABLE ACCESS TO AND USE OF SANITATION THROUGH FSM**

- Commence CSP planning process in Kamalbazar and Panchadewal Binayak Municipalities
- Complete household and institutional surveys, Q&Q study and FGDs in Kamal Bazar and Panchadewal Binayak Municipalities
- Submit Sanitation Status Report for Panchapuri, Chamunda Bindrasaini, Chhayanath Rara, Panchadewal Binayak and Kamalbazar Municipalities
- Conduct system selection and validation meetings in Panchapuri, Chamunda Bindrasaini, Panchadewal Binayak and Kamalbazar municipalities.
- Design and initiate other interventions in some of the CSP municipalities as per the CSP recommendations.
- Finalize activities under FSM scheme intervention and implementation modality.
- Submit scoping study report for approval to USAID
- Finalize design and cost estimate of Dullu FSTP
- Initiate procurement process for selection of construction sub-contractor for Dullu FSTP

## **OBJECTIVE 3 – STRENGTHENED GOVERNANCE FOR SUSTAINABLE RESILIENT MANAGEMENT OF WATER RESOURCES**

- Karnali Province WASH Bill validation and endorsement.
- Remaining six WASH Bill (Mohanyal, Janaki, Tikapur, Geruwa, Shubhakalika and Naraharinath) preliminary development and endorsement of the remaining Bills.
- GESI and Governance training support.
- NWASH-MIS system orientation to LGs.

## **OBJECTIVE 4 – STRENGTHENED CONSERVATION OF WATER-RELATED WATERSHED BIODIVERSITY**

- OWSC orientation at Middle Karnali and Lower Karnali watersheds.
- Prepare ecological evaluation report for all 3 PES priority sites.
- Finalize IWMP for all four watersheds.

- Finalize spring source protection report and contract with vendors.
- Integrate SSA data into the NWASH Management Information System (MIS).

## **MONITORING, EVALUATION, RESEARCH AND LEARNING**

- Submit revised MEL Plan for USAID approval.
- Pause and Review Workshop (P&R) will be organized in participation of all Activity staff and in presence of USAID and Home Office representative. The Activity will assess the progress made in the last 6 months along with challenges, formulate a way forward for the next 6 months, and reflect on key deliverables for out-years.
- Data collection and verification: The Activity MEL team will continue monitoring data entry and validation of all the DAI Collect forms either related to surveys or events.
- PowerBI dashboard: The Activity is engaging an STTA to create a PowerBI dashboard which will be further refined in the next quarter with the support of- the STTA.
- USAID/Nepal MEL working group meeting: USAID Karnali Water Activity will participate in the meeting that is scheduled on 11th January 2024 in Kathmandu. The Activity will share our learning on N-WASH in the meeting.
- Payment of Ecosystem Services (PES) data collection will be supported to assess the feasibility of the site.
- Continuous Data Quality and Monitoring activities: Data review, verification, and validation in DAICollect, backtracking of data in the field and with subcontractors, Orientation on MEL requirements to the A&E firms and subcontractors, Spot-checking WSS feasibility data.
- Circulate the bimonthly newsletter after receiving approval from the USAID.
- Start working on the stories to feature on World Water Day.

## **GENDER EQUALITY AND SOCIAL INCLUSION (GESI)**

- Build capacity of OWSCs on GESI issues in the remaining two events
- Collaborate with USAID GESI working group members.
- Develop training contents for the ToT event to the construction subcontractors.
- Orientation and backstopping to the construction subcontractors for GESI integration.
- Orient all staff on GESI during P&R for further improvement in GESI.
- Conduct the four remaining GESI and Governance training.
- Facilitate GESI sessions in the different capacity building events to the WUSC members.
- Facilitate to conduct community dialogue in the identified SBC champion communities.
- Revise the GESI monitoring tool and conduct GESI monitoring at the implementation level.

## **OPERATIONS**

### **HUMAN RESOURCES**

Recruit new positions and promptly fill any recently vacated or resigned positions as outlined below:

- Plan to complete the onboarding procedures for nine Water Supply and Sanitation Sub Engineers across four Watershed offices by the beginning of January 2024.
- Plan to complete the onboarding process for Technical Editor (STTA) by the 2<sup>nd</sup> week of January 2024.
- Plan to complete the onboarding process for a Finance Officer based in Kathmandu by the first week of February 2024.
- Plan to complete the onboarding process for a GESI Director to be based in Kathmandu by early February 2024.
- Plan to complete the onboarding process for a Watershed Engineer(s) to be based in Lower Karnali and Rara Watershed by early February 2024.

## ADMINISTRATION

The Operations team will provide ongoing support for the comprehensive logistical and financial management of the upcoming events, approximately 70, scheduled for the next quarter.

## FINANCE

- Plan to process VAT refund amounting to [REDACTED] tentatively [REDACTED] for the period July to November 2023.
- Plan to complete the external audit for DAI Global LLC for the fiscal year 2079/2080 (15th July 2022 to 16th July 2023) by the end of the January 2024, including all the required deliverables listed below:
  - Finalize audit finding and management response.
  - Finalize financial Statement.
  - Finalize and Submit the Labor Audit Report to the concerned.
  - Tax clearance for the fiscal year 2079/2080 (FY 2022/2023).
- Plan to update and renew the registration of DAI Global LLC in Office of Company Registration (OCR).
- Activity's expected burn rate for the upcoming quarter is presented below:

Month	Projected Expenditure
January 2024	[REDACTED]
February 2024	[REDACTED]
March 2024	[REDACTED]
TOTAL	[REDACTED]

## PROCUREMENT

The following technical services are under procurement and will be awarded in Q3 of Year 3.

No.	Activity Title	Contract Type	Tentative Award Date
1	Conduct Training Events for the Village Maintenance Workers (VMWS)	Purchase Order	January 2024
2	Water Supply Scheme Construction, Management, and Institutional Support for package 1,2, 3, 4, 5, 6 and 7	Subcontract	January to February 2024
3	Supply and Delivery of Construction Materials for WSS Scheme Construction at Rara, Tila, Middle Karnali and Lower Karnali Watersheds	Blanket Purchase Order Agreement	February 2024

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### ANNEX I: LIST OF WSS SCHEMES FOR YEAR 3

S N	Name of Scheme	District	M/ RM	Type	Scheme Type	H Hs	Survey/D esign work Complet ed	Estimate BoQ Complet ed	DPR/ERR Complet ed
1	Mathillo Dhamkot WSS	Kailali	Mohanyal	New	Solar Lift	31	Yes	Yes	Ongoing
2	Baspani WSS	Kailali	Mohanyal	Rehab	Gravity	23	Yes	Yes	Completed
3	Khaligada WSS	Kailali	Mohanyal	Rehab	Gravity	23	Yes	Yes	Completed
4	Kuiene WSS	Kailali	Mohanyal	Rehab	Gravity	218	Yes	Yes	Ongoing



5	Katunje Dhanadi WSS	Kailali	Mohanyal	Rehab	Gravity	57	Yes	Yes	Completed
6	Badikharka Solar Lift	Kailali	Mohanyal	Rehab	Solar Lift	19	Yes	Yes	Ongoing
7	Jhaprikhola MUS	Kailali	Mohanyal	New	MUS	60	Yes	Yes	Completed
8	Tiule MUS	Kailali	Mohanyal	New	MUS	7	Yes	Yes	Completed
9	Nauli WSS	Surkhet	Chaukune	New	Gravity	33	Yes	Yes	Completed
10	Kelobot WSS	Surkhet	Chaukune	New	Gravity	11	Yes	Yes	Completed
11	Basanta Kokeli WSS	Surkhet	Chaukune	New	Gravity	57	Yes	Yes	Ongoing
12	Goji Khola WSS	Surkhet	Chaukune	New	Gravity	55	Yes	Yes	Completed
13	Lamkane WSS	Surkhet	Chaukune	Rehab	Gravity	28	Yes	Yes	Completed
14	Bhitriban WSS	Surkhet	Chaukune	Rehab	Gravity	16	Yes	Yes	Completed
15	Jiunarital WSS	Surkhet	Chaukune	Rehab	Gravity	66	Yes	Yes	Completed
16	Danigauda WSS (MUS)	Surkhet	Chaukune	New	MUS	21	Yes	Yes	Ongoing
17	Rajitole Lift MUS	Surkhet	Chaukune	New	MUS	47	Yes	Yes	Ongoing
18	Ghugane Khola Sugarkhal WSS	Surkhet	Panchapuri	New	Gravity	32	Yes	Yes	Completed
19	Nacherne Awalchapre, Pal lo Awalchapre, Dhanchaur WSS	Surkhet	Panchapuri	New	Solar Lift	57	Yes	Yes	Ongoing
20	Chaprel Tatapani Lift WSS	Surkhet	Panchapuri	Rehab	Electric lift	182	Yes	Yes	Ongoing
21	Basmuhan Biju Kalasotha WSS	Surkhet	Panchapuri	Rehab	Gravity	111	Yes	Yes	Ongoing
22	Jajura Lift WSS	Surkhet	Panchapuri	Rehab	Solar Lift	65	Yes	Yes	Ongoing
23	Bankulo WSS	Surkhet	Panchapuri	Rehab	Gravity	158	Yes	Yes	Completed
24	Taule WSS	Surkhet	Panchapuri	Rehab	Solar Lift	58	Yes	Yes	Completed
25	Gerupani MUS	Surkhet	Panchapuri	New	MUS	17	Yes	Yes	Completed
26	Siman Gerupani MUS	Surkhet	Panchapuri	New	MUS	64	Yes	Yes	Completed

27	Ranighat Brihat Lifting WSS	Surkhet	Barahatal	Rehab	Solar Lift	144	Yes	Yes	-
28	Lakharpata WSS	Surkhet	Barahatal	New	Gravity	100	Yes	Yes	-
29	Tareli MUS	Surkhet	Barahatal	New	Gravity	40	Yes	Yes	Completed
30	Syaule MUS	Surkhet	Barahatal	Rehab	MUS	78	Yes	Yes	Completed
31	Satuwa MUS	Surkhet	Barahatal	New	MUS	44	Yes	Yes	Ongoing
32	Jalukeni Lifting WSS	Surkhet	Barahatal	Rehab	Gravity	104	Yes	Yes	Ongoing
33	Piyale Lifting WSS	Surkhet	Barahatal	Rehab	Solar Lift	82	Yes	Yes	Completed
34	Byureni WSS	Surkhet	Barahatal	Rehab	Gravity	153	Yes	Yes	Ongoing
35	Jhankri Lifting WSS	Surkhet	Barahatal	Rehab	Solar Lift	82	Yes	Yes	Ongoing
36	Patharbhoji WSS(OHT)	Bardiya	Madhuwan	New	OHT	127	Yes	Yes	-
37	Neulapur WSS(OHT)	Bardiya	Thakurbaba	New	OHT	398	Yes	Yes	-
38	Ganeshpur WSS(OHT)	Bardiya	Geruwa	New	OHT	268	Yes	Yes	-
39	Kalyaan Kunigaad Lift WSS	Achham	Turmakhand	New	Solar Lift	49	Yes	Yes	Completed
40	Thanakhola Channchane MUS	Achham	Turmakhand	New	MUS	47	Yes	Yes	Completed
41	Khupu Tanikot MUS	Achham	Turmakhand	New	MUS	50	Yes	Yes	Completed
42	Jukepani WSS	Achham	Turmakhand	New	Gravity	27	Yes	Yes	Ongoing
43	Mathillo Basrukh Chyalbada WSS	Achham	Turmakhand	New	Gravity	84	Yes	Yes	Ongoing
44	Virkechhada WSS	Achham	Turmakhand	Rehab	Gravity	52	Yes	Yes	Completed
45	Gajad Bazar WSS	Achham	Ramaroshan	Rehab	Gravity	14	Yes	Yes	Completed
46	Jhulegada WSS	Achham	Ramaroshan	Rehab	Gravity	21	Yes	Yes	Completed
47	Dallarukh WSS	Achham	Ramaroshan	Rehab	Gravity	14	Yes	Yes	Completed
48	Neulamara WSS	Achham	Ramaroshan	Rehab	Gravity	47	Yes	Yes	Completed
49	Okhalrukhdhara WSS	Achham	Ramaroshan	Rehab	Gravity	36	Yes	Yes	Completed

50	Nayaban WSS	Achham	Ramaroshan	New	Gravity	98	Yes	Yes	Ongoing
51	Sanni Khola WSS	Achham	Kamalbazar	Rehab	Gravity	70	Yes	Yes	Ongoing
52	Nartola WSS	Achham	Kamalbazar	Rehab	Gravity	42	Yes	Yes	Completed
53	Tallo Chalsa WSS	Achham	Kamalbazar	Rehab	Gravity	58	Yes	Yes	Completed
54	Serabada MUS	Achham	Kamalbazar	Rehab	MUS	18	Yes	Yes	Completed
55	Chadi Khola WSS	Achham	Kamalbazar	New	Gravity	11	Yes	Yes	Ongoing
56	Maya khola WSS	Achham	Kamalbazar	New	Gravity	41	Yes	Yes	Completed
57	Kamaithan WSS	Achham	Kamalbazar	New	Gravity	6	Yes	-	-
58	Dhimdhime WSS	Achham	Panchadewa I Binayak	New	Gravity	86	Yes	Yes	Completed
59	Chhadena Dhungebazar WSS	Achham	Panchadewa I Binayak	Rehab	Gravity	30	Yes	Yes	Completed
60	Lincharita WSS	Achham	Panchadewa I Binayak	Rehab	Gravity	44	Yes	Yes	Completed
61	Sanna Muga WSS	Dailekh	Chamunda	New	Gravity	20	Yes	Yes	Completed
62	Amrukh Thawat SunarTole WSS	Dailekh	Chamunda	Rehab	Gravity	63	Yes	Yes	Completed
63	Khadikhola WSS	Dailekh	Chamunda	Rehab	Gravity	51	Yes	Yes	Completed
64	Thulakhola Patikalla Lift (MUS)	Dailekh	Dullu	Rehab	Solar Lift	66	Yes	Yes	Completed
65	Mathillo Gaisain WSS	Dailekh	Dullu	New	Gravity	16	Yes	Yes	Completed
66	Kadalpani Tusarpani Lift WSS	Dailekh	Dullu	Rehab	Solar Lift	70	Yes	Yes	Completed
67	Nauladhara WSS	Dailekh	Dullu	Rehab	Gravity	48	Yes	Yes	Completed
68	Chhanakhola WSS	Dailekh	Aathbish	New	Gravity	39	Yes	Yes	Ongoing
69	Agregaira WSS	Dailekh	Aathbish	New	Gravity	51	Yes	Yes	Ongoing
70	Juneli WSS	Dailekh	Aathbish	Rehab	Gravity	43	Yes	Yes	Ongoing
71	Tusarpani WSS	Dailekh	Aathbish	Rehab	Gravity	37	Yes	Yes	Completed
72	Ballebaje WSS	Dailekh	Aathbish	Rehab	Gravity	86	Yes	Yes	Completed

73	Kalakhola WSS	Dailekh	Aathbish	Rehab	Gravity	19	Yes	Yes	Ongoing
74	Raghuraya MUS	Dailekh	Aathbish	Rehab	MUS	29	Yes	Yes	Completed
75	Kudipatal Timurkharka Sakhinegada WSS	Dailekh	Aathbish	New	Gravity	45	Yes	Yes	Ongoing
76	Niunani Muhan WSS	Dailekh	Aathbish	New	Gravity	23	Yes	Yes	Ongoing
77	Dhundhune Khola (Ghutghute) WSS	Dailekh	Aathbish	New	Gravity	40	Yes	Yes	Ongoing
78	Alaichibagar MUS	Dailekh	Aathbish	New	MUS	31	Yes	Yes	Completed
79	Tripandi WSS	Dailekh	Bhairabi	Rehab	Solar Lift	64	Yes	Yes	Ongoing
80	Kuwakhola Saunbada WSS	Dailekh	Bhairabi	New	Gravity	10	Yes	Yes	Completed
81	Sanghare WSS	Dailekh	Bhairabi	Rehab	Gravity	111	Yes	-	-
82	Ghiyapani Sisneri	Dailekh	Bhairabi	Rehab	Gravity	12	Yes	Yes	Completed
83	Dhungana Khoriya WSS	Dailekh	Bhairabi	Rehab	Gravity	22	Yes	-	-
84	Sajharukha WSS	Dailekh	Bhairabi	New	Gravity	8	Yes	Yes	Completed
85	Gairakhiola WSS	Dailekh	Thatikhand	Rehab	Gravity	48	Yes	Yes	Ongoing
86	Malukot Nuwaban WSS	Dailekh	Thatikhand	Rehab	Gravity	15	Yes	Yes	Completed
87	Tulikamaya Jadikhet WSS	Dailekh	Thatikhand	New	Gravity	21	Yes	Yes	Completed
88	Gothi WSS	Jumla	Tila	New	Gravity	48	Yes	Yes	Completed
89	Simkhola WSS	Jumla	Tila	New	Gravity	51	Yes	Yes	Completed
90	Thula Khola WSS	Jumla	Tila	New	Gravity	94	Yes	Yes	Ongoing
91	Pani Pyauna WSS	Jumla	Tila	New	Gravity	216	Yes	Yes	Completed
92	Puru MUS	Jumla	Tila	New	Gravity	109	Yes	Yes	Ongoing
93	Rade Pani Naula WSS	Jumla	Tila	New	Gravity	105	Yes	Yes	Ongoing
94	Panikhola Malapani WSS	Jumla	Tila	New	Gravity	66	Yes	Yes	Completed

95	Situ WSS	Kalikot	Khadachakra	New	Gravity	35	Yes	Yes	-
96	Palteodar Simkhola WSS	Kalikot	Khadachakra	Rehab	Gravity	43	Yes	Yes	Completed
97	Darjitole Jimgedi WSS	Kalikot	Khadachakra	New	Gravity	8	Yes	Yes	Completed
98	Gaganegedi Meltadi WSS	Kalikot	Khadachakra	Rehab	Gravity	22	Yes	Yes	Completed
99	Karpuraskot WSS	Kalikot	Khadachakra	New	Gravity	22	Yes	Yes	Ongoing
100	Dungri WSS	Kalikot	Khadachakra	New	Gravity	18	Yes	Yes	Ongoing
101	Bharepata MUS	Kalikot	Khadachakra	Rehab	MUS	16	Yes	Yes	Completed
102	Siradi Takulla WSS	Kalikot	Tila Gufa	New	Gravity	40	Yes	Yes	Completed
103	Lamathinke WSS	Kalikot	Tila Gufa	Rehab	Gravity	28	Yes	Yes	Completed
104	Dhesne WSS	Kalikot	Tila Gufa	Rehab	Gravity	41	Yes	Yes	Completed
105	Dafe Basera WSS	Kalikot	Tila Gufa	Rehab	Gravity	73	Yes	Yes	Ongoing
106	Andheripatal WSS	Kalikot	Tila Gufa	Rehab	Gravity	116	Yes	Yes	Ongoing
107	Baije WSS	Kalikot	Tila Gufa	Rehab	Gravity	177	Yes	Yes	Ongoing
108	Mathillo Budakot MUS	Kalikot	Tila Gufa	Rehab	MUS	35	Yes	Yes	Completed
109	Bangtola Dhuska Chadarbada MUS	Kalikot	Tila Gufa	Rehab	Gravity	92	Yes	Yes	Ongoing
110	Serne Dhimiye WSS	Kalikot	Tila Gufa	New	Gravity	273	Yes	Yes	Ongoing
111	Kapta WSS	Kalikot	Naraharinath	New	Gravity	24	Yes	Yes	Completed
112	Kakarata WSS	Kalikot	Naraharinath	New	Gravity	28	Yes	Yes	Ongoing
113	Aamanepani MUS	Kalikot	Naraharinath	New	MUS	45	Yes	Yes	Completed
114	Bennamul Rehab WSS	Kalikot	Naraharinath	New	Gravity	30	Yes	Yes	Completed
115	Deutapani Rehab WSS	Kalikot	Naraharinath	New	Gravity	55	Yes	Yes	Ongoing
116	Bherekhola Rehab WSS	Kalikot	Naraharinath	New	Gravity	52	Yes	Yes	Completed
117	Rachanakhola	Kalikot	Naraharinath	New	Gravity	30	Yes	Yes	Ongoing
118	Biradaha-Pani Mul WSS	Kalikot	Mahawei	New	Gravity	19	Yes	Yes	Completed

119	Majhmul Simmul WSS	Kalikot	Mahawei	New	Gravity	46	Yes	Yes	Completed
120	Chauratha Kotbada WSS	Kalikot	Mahawei	New	Gravity	72	Yes	Yes	Completed
121	Pani Mul WSS	Kalikot	Mahawei	New	Gravity	109	Yes	Yes	Ongoing
122	Nayaban WSS	Kalikot	Mahawei	New	Gravity	61	Yes	Yes	Ongoing
123	Bhera Mul WSS	Kalikot	Mahawei	New	Gravity	45	Yes	Yes	Completed
124	Kalasain	Kalikot	Subhakalika	New	Gravity	27	Yes	Yes	Completed
125	Gahadboyaa MUS	Kalikot	Subhakalika	New	MUS	37	Yes	Yes	Completed
126	Tallo Badasaini	Kalikot	Subhakalika	New	Gravity	53	Yes	Yes	Ongoing
127	Chhelahanna WSS	Kalikot	Subhakalika	New	Gravity	43	Yes	Yes	Completed
128	Riulamul WSS	Kalikot	Subhakalika	New	Gravity	48	Yes	Yes	Ongoing
129	Panimugala WSS	Kalikot	Subhakalika	New	Gravity	39	Yes	Yes	Ongoing
130	Maghidhara WSS	Kalikot	Subhakalika	New	Gravity	149	Yes	Yes	Completed
131	Bistabada WSS	Mugu	Chhayanath Rara	New	Gravity	33	Yes	Yes	Completed
132	Gorukhor WSS	Mugu	Chhayanath Rara	Rehab	Gravity	33	Yes	Yes	Completed
133	Ema WSS	Mugu	Chhayanath Rara	New	Gravity	33	Yes	Yes	Completed
134	Thini MUS	Mugu	Chhayanath Rara	New	MUS	73	Yes	Yes	Completed
135	Chunga	Mugu	Chhayanath Rara	New	Gravity	33	Yes	Yes	Completed
136	Dobato	Mugu	Chhayanath Rara	New	Gravity	66	Yes	Yes	Completed
137	Dhelekhola	Mugu	Chhayanath Rara	Rehab	Gravity	119	Yes	Yes	Completed
138	Karkibada	Mugu	Chhayanath Rara	New	MUS	136	Yes	Yes	Completed
139	Ruma	Mugu	Soru	New	Gravity	81	Yes	Yes	Completed
140	Jethabada WSS	Mugu	Soru	New	Gravity	42	Yes	Yes	Completed
141	Rokabada WSS	Mugu	Soru	New	Gravity	38	Yes	Yes	Completed
142	Gurugaun WSS	Mugu	Soru	New	Gravity	30	Yes	Yes	Completed
143	Gurubarma libru WSS	Mugu	Soru	New	Gravity	45	Yes	Yes	Completed

144	Nera	Mugu	Soru	New	Gravity	121	Yes	Yes	Completed
145	Habaghar Hyanglu WSS	Mugu	Khatyad	New	Gravity	129	Yes	Yes	Completed
146	Bhamkhada WSS	Mugu	Khatyad	New	Gravity	37	Yes	Yes	Completed
147	Dasade WSS	Mugu	Khatyad	Rehab	Gravity	85	Yes	Yes	Completed
148	Chhote Chakpade WSS	Mugu	Khatyad	Rehab	Gravity	27	Yes	Yes	Completed
149	Puttakhola Jama WSS	Mugu	Khatyad	Rehab	Gravity	77	Yes	Yes	Completed
150	Lugude WSS	Mugu	Khatyad	Rehab	Gravity	59	Yes	Yes	Completed
151	Badilagna Thamlekh WSS	Mugu	Khatyad	New	Gravity	170	Yes	Yes	Completed

# ANNEX II: PROPOSED MASTER PLAN OF DULLU FSTP

