



 For providing safe and quality drinking water to people

The Capacity Development Project for the Improvement of Water Supply Management in Semi-urban Areas in Nepal


WASMIP-II



August 24, 2021
Chief Advisor
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1,751

Fiscal year	MoWS	DWSSM/ NWSSTC	FWSSMP	MoPID	RMSO/ WSSDO	WUSC	Others	Total
2016	-	38	-	-	42	129	19	228
2017	4	92	-	-	12	-	25	133
2018	1	49	-	2	30	245	10	337
2019	7	88	29	0	2	281	13	420
2020	-	6	46	1	6	91	32	182
2021	-	15	39	4	-	384	9	451
Total	12	288	114	7	92	1,130	108	1,751

As of April 30, 2021

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Background

1) Nepal SDGs

Target and Indicators		2015	2025	2030
6.1-1	Population using safe drinking water (%)	15	65	90
6.1-2	Households with access to piped water supply (%)	49.5	76.5	90
6.1-3	Basic water supply coverage (%)	87.0	95	99
6.1-4	Households with E. coli risk level in household water ≥ 1 cfu/100ml (%)	82.2	27.4	1
6.1-5	Households with E. coli risk levels in source water ≥ 1 cfu/100ml (%)	71.1	23.7	1
6.4-1	Wastage of water – Irrigation (Field losses in %)	40	20	1
6.4-4	Non-Revenue Water	20	10	5

Source: Sustainable Development Goals, Status and Roadmap: 2016-2030, National Planning Commission, Government of Nepal, (2018, Feb.)

2) WASMIP-I (Phase-1)

Target area: Morang and Jhapa districts in Province No.1

WUSCs: 20

Duration: January 2010 to September 2013

Achievements: Formulation of Management Model and Support Model

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1. Outline of the WASMI-P-II

1-1. Project Purpose

Overall Goal:

Continuous support to WUSCs in semi-urban towns is provided by DWSSM/NWSSTC.

Project Purpose :

Support to the WUSCs in semi-urban towns **is provided and strengthened by DWSSM and NWSSTC** using government and non-government organizations' personnel.

1-2. Outputs

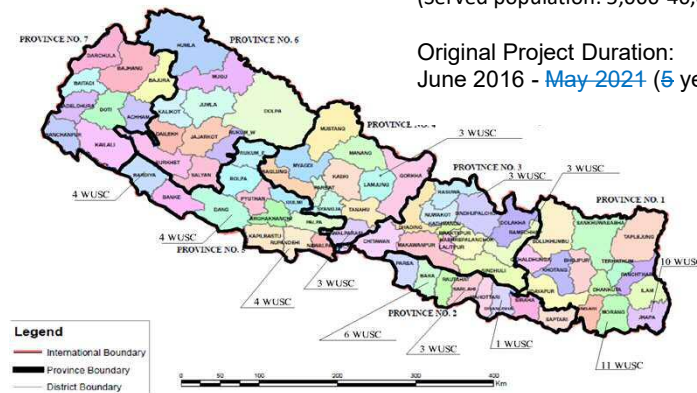
Outputs:

1. **Baseline survey and capacity assessment** of DWSSM, NWSSTC, FWSSMP and the target WUSCs are conducted, and project implementation plan is finalized.
2. **Supporting capacity of DWSSM** regarding O&M and management for WUSCs in semi-urban towns **is strengthened**.
3. **Implementing capacity of NWSSTC** regarding the training for WUSCs in semi-urban towns **is strengthened**.

1-3. Project Location Map

Total: **68** WUSCs in semi-urban towns
(Served population: 5,000-40,000)

Original Project Duration:
June 2016 - **May 2024** (5 years)



1-4. Project Duration Amendment

Before	Amended Version
Project period : Jun 2016 ~ May 2021 (5 years)	Project period : Jun 2016 ~ March 2022 (5 years + 10 months)
Reason: Because of COVID-19, many project activities have been suspended. To achieve the project purpose through resumption of the existing activities and to ensure sustainability by implementing additional activities, the project duration needs to be extended.	

2. Status of Activities of Each Output

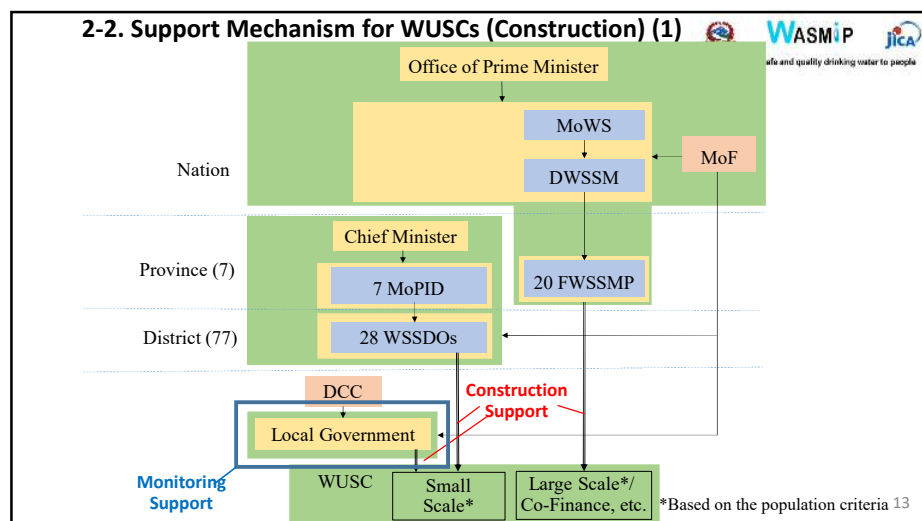
Output-1

Baseline survey and capacity assessment of DWSSM, NWSSTC, and the target WUSCs have been completed, and project implementation plan finalized.



2-1. Status of Activities (Output-1)

Activities for Output-1	Status
1.1 Conduct a baseline survey and technical, financial, management and organizational capacity assessment of DWSSM, FWSSMP, NWSSTC, and the target WUSCs.	Completed/Monitoring
1.2 Conduct a situation analysis surrounding water supply sector in semi-urban towns including legislation and development plans.	Completed/Monitoring
1.3 Analyze the supporting mechanism for WUSCs by DWSSM, NWSSTC and FWSSMP.	Completed
1.4 Coordinate and consult with the Third Small Town Project and Sector Efficiency Improvement Unit (SEIU) on support for WUSCs in semi-urban towns.	Completed/Monitoring
1.5 Revise PDM and PO reflecting the result of aforementioned activities.	Complete



2-2. Support Mechanism for WUSCs (Construction) (2)

(1) Construction of Water Supply Facilities

The criteria of the projects are showed as below;

Area	Federal	Provincial	Local
Mountainous	More than 1,000	500 – 1,000	Up to 500
Hill	More than 5,000	3,000 – 5,000	Up to 3,000
Plain	More than 15,000	5,000 – 15,000	Up to 5,000

Source: Budget and Program FY 2076/77

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2-3. Roles and Responsibilities (Monitoring) (1)

(1) Nepal Government (MoWS, DWSSM, FWSSMP)

- 1) Large Project on National level related to water supply and sanitation
- 2) Foreign Assistance Project and Co-Finance Projects
- 3) Projects providing access of water supply and sanitation to the specified population of specified area
- 4) Projects related to more than one province
- 5) Multipurpose wastewater treatment and management that requires large capital investment
- 6) Projects that transfers water from one resource to another area
- 7) Projects specified by the Government of Nepal
- 8) Monitoring of water supply and sanitation projects

Source: "Draft WaSH Bill" prepared by MoWS

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2-3. Roles and Responsibilities (Monitoring) (2)

(2) Provincial Government (MoPID, WSSDO)

- 1) Projects providing access of water supply and sanitation to the specified population of specified area
- 2) Wastewater management and treatment
- 3) Projects related to more than one local bodies within a province

Source: "Draft WaSH Bill" prepared by MoWS

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2-3. Roles and Responsibilities (Monitoring) (3)

(3) Local Government

- 1) **Water supply service and its monitoring** in local level
- 2) Raising awareness on sanitation
- 3) Operating wastewater management system
- 4) Projects providing access of water supply and sanitation to the specified population of specified area
- 5) **Maintenance and rehabilitation work of water supply and sanitation projects operated in local level**

Source: "Draft WaSH Bill" prepared by MoWS

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2-4. Baseline Survey on Local Governments

- 1) Lack of skills and knowledge on O&M, design and cost estimation
- 2) Lack of human resource (several engineers cover a wide range of fields such as road, irrigation, construction, waterworks, etc.)
- 3) Lack of supervision capacity for construction and repair works
- 4) **Small budget for construction and O&M of water treatment facilities because top management of NP / GP lacks understanding on importance of water supply** and prioritizes road construction
- 5) Low ratio of budget for water supply business to the total of NP / GP
 - 20 municipalities: 0.1-1.0% ,
 - 1 municipality: 5.0-10% ,
 - 9 municipalities: denied disclosing data.

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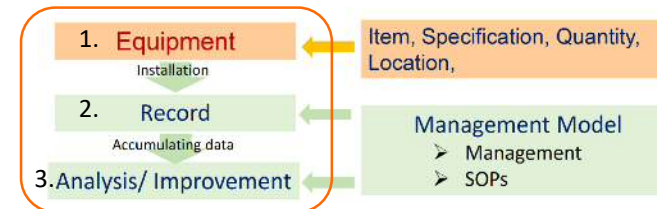
2-5. Capacity Level of WUSCs

Level	Situation	Cause
1	Not installed delivered Equipment (e.g. flowmeter)	No understanding of equipment importance/ proper positions, No fittings/ Insufficient budget
2	Installed but no operation record	No understanding of record importance
3	Keep recording, but no analysis	No understanding of data analysis, how to analyze data
4	Analyzing data and Detecting/ Preventing Errors	Next stage: securing budget, human resources

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2-6. Sound Operation and Maintenance



1. Equipment Installation
 - 1) Identify installation location and quantity
 - 2) Determine specifications
 - 3) Procure/install
2. Record Keeping on O&M
3. Analysis Data and Improvement of O&M Activities

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2-7. Summary of Output-1

- 1) The activities on Output-1 of the PDM have been completed.
- 2) The additional baseline survey for Provincial and Local Governments has been completed.
- 3) Monitor continuously a situation analysis surrounding water supply sector in semi-urban towns
- 4) According to the draft WaSH Bill, Local Governments (LGs) have a responsibility for maintenance and repair of water supply systems in WUSCs, however, LGs have **insufficient capacity** for it.

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Output-2

Supporting capacity of DWSSM regarding O&M and management for WUSCs in semi-urban towns **is strengthened.**



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2-8. Status of Output-2 (1)

Activities for Output-2	Status
2.1 Study the monitoring and management evaluation indicators suited on the current condition of WUSCs in semi-urban towns, and revise the Management Model for enhancing the usability of the model for WUSCs in semi-urban towns by DWSSM.	Completed
2.2 Plan necessary rehabilitation works for some of target WUSCs in semi-urban towns by DWSSM.	Completed
2.3 Conduct necessary rehabilitation works for some of target WUSCs in semi-urban towns by DWSSM.	Completed
2.4 Prepare a design manual of specifications on rehabilitation works for target WUSCs in semi-urban towns by DWSSM.	Completed
2.5 Identify and document the section of departments responsible for training implementation for WUSCs in semi-urban towns by DWSSM.	Completed
2.6 Formulate an outline of the Training of Trainers (ToT) regarding the Basic Training and On-site Training and instruct NWSSTC to implement the training by DWSSM.	Completed
2.7 Formulate an outline of the Basic Training for the WUSCs in semi-urban towns and instruct NWSSTC to implement the training by DWSSM.	Completed

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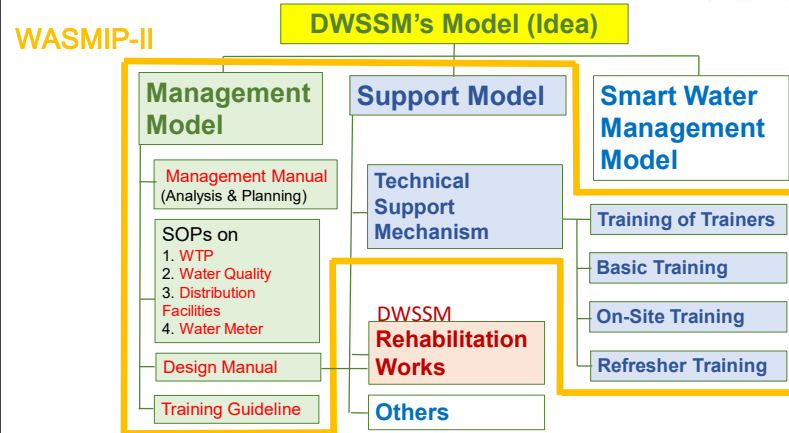
2-8. Status of Output-2 (2)

Activities for Output-2	Status
2.8 Formulate an outline of the On-site Training for the WUSCs in semi-urban towns and instruct NWSSTC to implement the training by DWSSM.	Completed
2.9 Formulate an outline of the Refresher Training for the WUSCs in semi-urban towns and instruct NWSSTC to implement the training by DWSSM.	Completed
2.10 Evaluate the above-mentioned trainings conducted by NWSSTC, and reflect its results on the training on the Management Model for WUSCs in semi-urban towns in following years by DWSSM.	Completed/ Continue
2.11 Allocate a budget for NWSSTC to implement the above-mentioned trainings by DWSSM.	Completed/ Continue
2.12 Re-update the Management Model for WUSCs in semi-urban towns upon receiving feedbacks from Output 3.	Completed in WASMI-P-II
2.13 Conduct the support activities in response to the COVID-19 emergency	Completed

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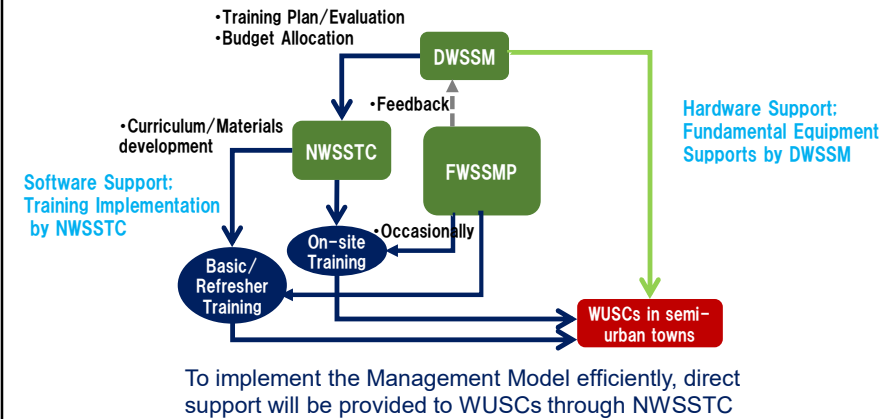
2-9. Management Model and Support Model



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2-10. Technical Support Mechanism



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2-11. Hardware Support

I. Design Manual of Specifications on Rehabilitation Works developed by WASMIIP

68 target WUSC's **water supply schematic flow diagrams** were developed and extracted equipment which should be installed or replaced (e.g., **flow meter, chlorination unit**).

II. Rehabilitation Works implemented by DWSSM

Rehabilitation works for 68 target WUSCs were completed. Rehabilitation work has been expanded to other WUSCs in semi-urban towns.

Items: Flow meter, Chlorination unit, Pressure gauge, Water quality test kit, Electric Devices (digital clamp meter, insulation continuity tester, earth tester), Safety tools (mask, glove, goggles), Aeration filter media

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2-12. Design Manual



MANUAL OF REHABILITATION WORKS FOR WUSC IN SEMI-URBAN TOWNS



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2.12.1 Objectives of Design Manual

1.1 Definition

Rehabilitation Work is providing semi-urban WUSCs for essential equipment (chlorination unit, water meter)

1.2 Sustainable Water Supply to Consumers

1) To supply sufficient water amount

→ To measure/grasp the supplied water amount, with bulk/flow meters.

2) To provide safe water

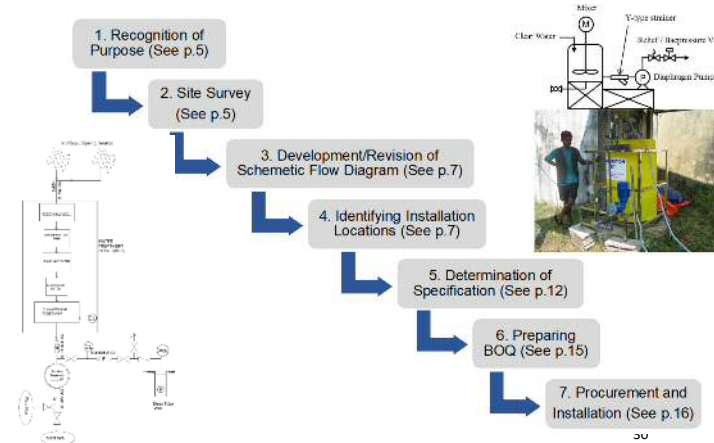
→ To conduct water quality test, and grasp if the water quality meets the Water Quality Standards.

3) To extend the facility life time

→ Without the maintenance to the facility, the facility performance might be gradually deteriorating and finally, facility function suspends.

2.12.2. How to Use the Design Manual

To understand the rehabilitation work procedures



2.12.3 Expected Effect

1) To understand the current water supply system at WUSCs

2) To identify the appropriate number and location of flow meters and chlorination units

→ Recover the original water supply function

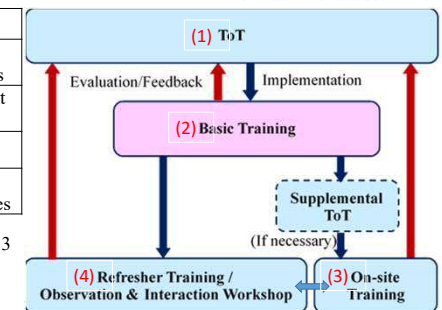
→ Eliminate wasteful capital investment



2-13. Software Support (Trainings)

Training	Objectives
(1) Training of Trainers (ToT)	Understanding Basic training contents, key points, teaching skills
(2) Basic Training	Knowledge, skills and management on water supply business
(3) On-site Training	Applying knowledge to sites
(4) Refresher Training	Feedback from Basic training, Sharing Good practice & Key issues

*Trainings have been carried out as the activities of Output 3



Relation of Trainings

Training Implementation Guideline developed by WASMIIP: the administrative training procedures

2-14. Budget Secured for the Project

6	Fiscal Year	Rehabilitation Works (Hardware Support)	Trainings (Software Support)
1	2073/74	15 million	2.5 million
2	2074/75	50 million 24 million (5 RMSOs)	2.5 million
3	2075/76	10 million	2.5 million
4	2076/77	20 million	4.0 million
5	2077/78	15 million	6.0 million
6	2078/79		6.0 million

*Unit: NPR

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2-15. Additional Support in response to COVID-19 (1)

PDM: Conduct the support activities in response to the COVID-19 emergency

1. Bleaching powder (3.1 ton) for 3 months

11 WUSCs in Jhapa district in Province No.1 → 16,424 households
(108,268 people)

2. Bleaching powder (11.05 ton) for 2 months

52 WUSCs all over the country → 95,862 households (607,772 people)

3. Equipment

(Chlorination units:2, Water quality test kits:9, Toilet: 6, Handwashing: 15)

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2-15. Additional Support in response to COVID-19 (2)

Bleaching Powder



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2-15. Additional Support in response to COVID-19 (3)



Chlorination unit

Toilet

Handwashing

Water quality test kit

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2-16. Summary of Output-2

- 1) The activities on the PDM for Output-2 have been completed.
- 2) Management Model has been revised and evaluation indicators (Key Performance Indicators) have been set.
- 3) Management Model has been continuously re-updated receiving feedback from Output-3
- 4) Draft design manual of specifications on rehabilitation works was developed.
- 5) Outlines of Trainings have been formulated.
- 6) Necessary budgets for the training and rehabilitation works have been secured by DWSSM. The rehabilitation works have been implemented.
- 7) The additional procurement of breaching powder, handwash tank and toilets in response to Covid-19 was carried out and delivered.

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Output-3

Implementing capacity of NWSSTC regarding the training for WUSCs in semi-urban towns is strengthened.



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2-17. Status of Activities (Output-3) (1)

Activities for Output-2	Status
3.1 Evaluate the training implementation mechanism and equipment by NWSSTC.	Completed
3.2 Draft a training implementation guideline and a plan for the training on the Management Model for WUSCs in semi-urban towns by NWSSTC.	Completed
3.3 Select candidates for ToT regarding the training on the Management Model for WUSCs in semi-urban towns from MoWS, DWSSM, NWSSTC, FWSSMP, WUSCs and other organizations by NWSSTC.	Completed/Continue
3.4 Plan the ToT regarding Basic Training and On-site Training by NWSSTC.	Completed/Continue
3.5 Implement the ToT regarding Basic Training and On-site Training by NWSSTC.	Completed/Continue
3.6 Plan the Basic Training for the WUSCs in semi-urban towns by NWSSTC.	Completed/Continue
3.7 Implement the Basic Training by NWSSTC.	Completed/Continue

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2-17. Status of Activities (Output-3) (2)

Activities for Output-2	Status
3.8 Plan the On-site Training for the WUSCs in semi-urban towns by NWSSTC.	Completed/Continue
3.9 Implement the On-site Training for WUSCs in semi-urban towns by NWSSTC.	Completed/Continue
3.10 Plan the Refresher Training for the WUSCs in semi-urban towns by NWSSTC.	Completed/Continue
3.11 Implement the Refresher Training for WUSCs in semi-urban towns by NWSSTC.	Completed/Continue
3.12 Re-update the following: (i) training implementation guideline, (ii) training plan, (iii) training curriculums, and (iv) training materials upon receiving feedbacks from results of aforementioned trainings by NWSSTC.	Completed in WASMIIP-II

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2-18. Training of Trainers (ToT)

1) Objectives:

- ✓ Sound management and proper O&M in water supply services
- ✓ Chairperson, board member, manager from one WUSC
- ✓ Board member's understanding management and O&M importance
- ✓ They have a decision to dispatch staffs.

2) 5 times

3) 67 trainers ⇒ In DWSSM: 40 trainers

4) Venue: NWSSTC, Online

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Training of Trainers



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2-19. Basic Training

1) Objectives:

- ✓ Sound management and proper O&M in water supply services
- ✓ Chairperson, board member, manager from one WUSC
- ✓ Board member's understanding management and O&M importance
- ✓ They have a decision to dispatch staffs.

2) 5 times included in 1 online

3) 63 WUSCs participated

4) Venue: NWSSTC, Online

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2-19. Basic Training (Online)



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2-20. On-site Training (1)

1) Objectives:

- ✓ To confirm other knowledge and skills acquired in the Basic Training
- ✓ To check the O&M records
- ✓ To confirm the situation of collection Key Performance Indicators (KPIs)
- ✓ To confirm the schematic flow diagrams (water supply system drawings) compared to current systems
- ✓ To conduct interview survey to WUSCs with the Management check sheet

2) 41 WUSCs participated

3) Visiting WUSC sites



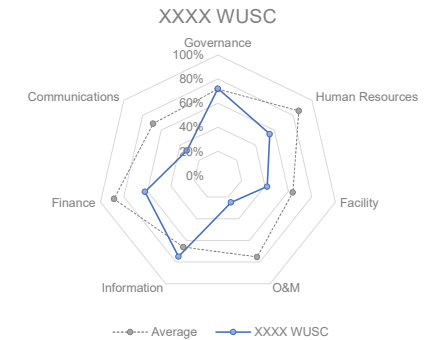
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2-21. Interview survey with the Management check list (1)

50 Items (145 Questions) in 7 Key Management Areas

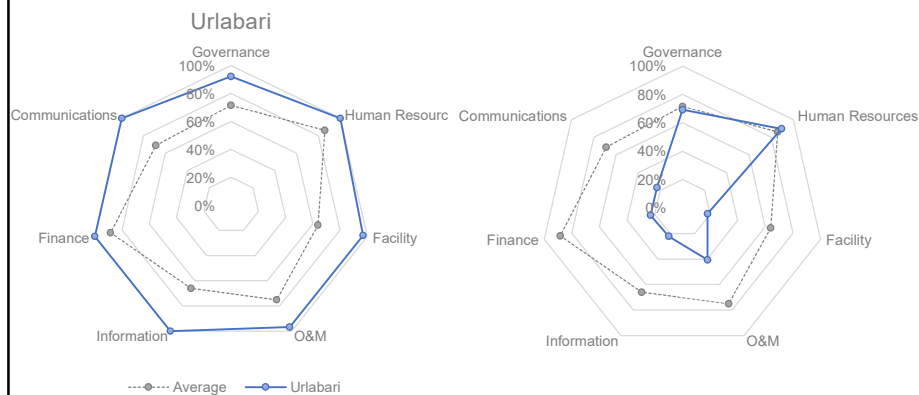
- 1) Governance: 9 items,
- 2) Human Resources: 7 items
- 3) Facility: 10 items
- 4) O&M: 9 items
- 5) Information: 3 items
- 6) Finance: 6 items
- 7) Communication: 6 items



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2-21. Interview survey with the Management check list (2)



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2-22. Refresher Training (1)

Called "Observation and Interaction Workshop"

1) Objectives

- a. To observe water supply facility in the model WUSC as **good practice**.
- b. To observe O&M, record keeping, water quality test and disclose.
- c. To facilitate **interaction and discussion** among DWSSM/NWSSTC and WUSCs.
- d. To recognize the gaps between the model WUSC and other WUSCs
- e. To **lecture** WUSCs by **NWSSTC**


2) 3 times

3) 59 WUSCs participated

4) WUSC sites

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2-22. Refresher Training (2)


Good Practices	Challenges
1) Regular meter reading 2) Quick repair pipelines 3) Preparing a water tariff for economic difficulties 4) Storing spare parts 5) Installing power generator 6) Daily chlorine dosing 7) Regular inspection and monitoring of facilities 8) Regular water quality test 9) Customer complain management 10) Regular board meeting 11) Preparing annual audit report 12) Regular communication with consumers	1) Pipe destruction by road constructions 2) Accumulation of budget for construction and O&M 3) Increasing water supply volume 4) Water treatment in high turbidity 5) Water leakage from aged pipes 6) High electricity bills 7) Scaling inside pipe 8) Water source development

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2-23. Effects of the Trainings

S.N	DWSSM/NWSSTC	WUSCs
1	Improvement of training skills (teaching, facilitation) of trainers.	Opportunity with DWSSM and other WUSCs identifying problems and solution.
2	Increasing number of trainers in fields of O&M and management on water supply system.	Recognizing importance of O&M and financial records and KPIs.
3	Systematic training on overall (O&M and management) water supply system	Identifying correct O&M procedures (e.g: operation of sedimentation tank) in site.
4	Opportunity to visit and give lecture at the site and visualize O&M of WUSCs.	Obtained essential equipment such as flowmeter, chlorine dosing, water quality test kit for proper O&M and safe water supply from DWSSM.
5	Identifying roles of WUSCs as stipulated by government policies, rules and regulation regarding water supply service.	

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2-24. Summary of Output-3

- 1) Prepared the training materials (PowerPoint slides, videos)
- 2) Nominated and trained the trainers from DWSSM/NWSSTC/FWSSMPs by ToT
- 3) Planned and implemented the Basic Training, On-site trainings and Refresher Training.
- 4) Updated continuously the training materials and training implementation guideline receiving feedback from training results

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3. Achievement, Deliverables and Remaining Activities

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3-1. Achievements

- 1) Studied the situation surrounding water supply sector and support to WUSCs (Output 1)
- 2) Revised Management Model and set evaluation indicators (Key Performance Indicators) (Output 2)
- 3) 67 trainers with ToT (Output 3)
- 4) Formulated and conducted Trainings; ToT (5times), Basic (3 times), On-site (18 sites), Refresher (3 times) (Output 3)
- 5) Conducted rehabilitation works of water supply facilities of WUSCs with DWSSM budgets (Output 2)
- 6) Procured and delivered breaching powder, handwash tank and toilets in response to Covid-19 emergency (Output 2)

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3-2. Deliverables

- 1) Training Implementation Guideline (Output 3)
- 2) Training Materials (Output 3)
SOPs, Management, Videos, PowerPoint, Handy type SOPs
(Management of Water Supply Facilities, Water Quality Management, Water Distribution Facility, Household Connections and Water Meters, Analysis of Water Supply Management , Planning of Water Supply Management)
- 3) Design manual of specifications on rehabilitation works (Output 2)
- 4) Data Book (**KPIs**) on target WUSCs in WASMIP-II (Output 1)

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3-3 Remaining Activities

Management Model Approved by DWSSM

- The final version of 1) Management Model, 2) Training Implementation Guideline, 3) Training Plan, 4) Training Curriculums for WUSCs in semi-urban towns are officially approved/authorized by DWSSM.

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4. Discussion and Sustainability after the Project

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4.1 Preventive Measures for Broken Water Pipes

1. During preliminary survey, public hearing is conducted by concerned authority (Road department or Local government). WUSCs can use this opportunity to catch the attention of the authority on existing water supply pipelines.
2. WUSC will prepare a map of the water supply system, including transmission and distribution pipes, showing the location, material, and size of the pipes.
3. WUSC will submit to concerned road construction authorities (Local Government, Road department) to avoid damage to pipes.
4. When road construction begins, WUSC will contact the concerned road authorities (federal, state, and local) and disseminate the information on the water distribution network map.
5. To ensure that water pipes are not broken during road construction, WUSC will request the relocation of water pipes by letter.
6. In case of breakage of water distribution pipes, WUSC will submit a tentative estimate of possible damages to the relevant authorities.

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4-2. Sustainability of Support to WUSCs

1) Full cooperation of FWSSMPs to keep moving forward

- In Basic training, participating as a trainer (online)
- In On-site training, visiting and monitoring WUSCs when visiting WUSCs as supervisor
- DWSSM issued the request letter to FWSSMPs



2) Helpline in DWSSM/NWSSTC for WUSCs

To tackle requests from WUSCs for information

- 1) Construction, 2) Training, 3) O&M, 4) Rehabilitation work

DWSSM/NWSSTC homepage can guide WUSCs to a related section

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4-3. Sustainability after WASMIIP-II (1)

(1) Training system

- Updating Training materials (SOPs, management, videos, etc.)
- Training of Trainers (sustaining trainer capacity)
- Securing Budget continuously for trainings

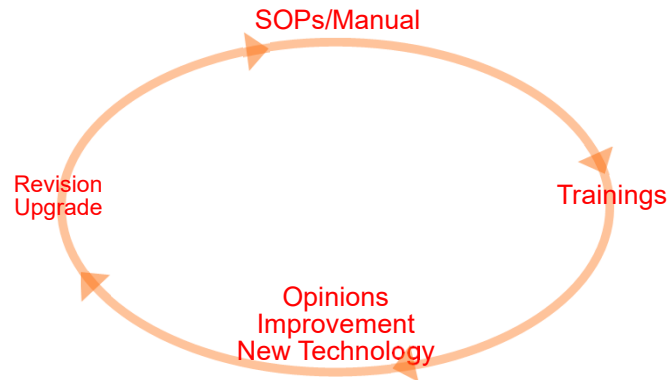
(2) Rehabilitation works

- Practical use of “Design Manual of Specifications on Rehabilitation Works”
- Instructing WUSC with the Manual in the training
- Securing Budget for rehabilitation works (DWSSM/MoPID/LGs)

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4-3. Sustainability after WASMIP-II (2)



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5. Schedule

No.	Activities	2021					2022		
		8	9	10	11	12	1	2	3
1	Joint Coordinating Committee								
2	Final Evaluation Mission								
3	Shearing Design Manual among FWSSMPs								
4	Approved Management Model								
5	KPI data collection								
6	Basic Training								
7	On-site Training								
8	Refresher Training								
9	Training in Japan (Online)								

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Thank you very much for your attention!

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