添付 6:モニタリングシート

### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

Version of the Sheet: Ver.1 (Term: September, 2015 - October, 2015)

Name: Shinsuke Sugino

Title: Team Leader

Submission Date: 23 October 2015

I. Summary

1 Progress

1-1 Progress of Inputs

N/A

1-2 Progress of Activities

Progress of activities is indicated in Monitoring Sheet Form 3-3.

1-3 Achievement of Output

[Output 1:Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.]

- A Working Group is being set up.
- Selection of a sub-contractor for baseline survey is on-going.

[Output 2:O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.]

N/A

[Output 2: Operational capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.]

N/A

[Output 4: Capacity to supervise development of rural water supply facilities is strengthened.]

N/A







[Output 5: H&S in the pilot communities is improved.] N/A

[Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders (all relevant Ugandan institutions, other donors, NGO etc.).]

N/A

1-4 Achievement of the Project Purpose N/A

1-5 Changes of Risks and Actions for Mitigation N/A

- 1-6 Progress of Actions undertaken by JICA
- Kick-off meeting was held on September 29, 2015.
- A meeting on Inception Report was held on October 6, 2015.
- 1-7 Progress of Actions undertaken by Gov. of Uganda
- A meeting on Inception Report was held on October 6, 2015.
- 1-8 Progress of Environmental and Social Considerations (if applicable) N/A
- 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

N/A

1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

N/A

2 Delay of Work Schedule and/or Problems (if any)

2-1 Detail

N/A



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2-2 Cause

N/A

2-3 Action to be taken

N/A

2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda,etc.) N/A

3 Modification of the Project Implementation Plan 3-1 PO

PO is being prepared. (See the attached Monitoring Sheet Form 3-3.)

3-2 Other modifications on detailed implementation plan

(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

N/A

4 Preparation of Gov. of ● toward after completion of the Project N/A

II. Project Monitoring Sheet I & II as Attached







# Project Monitoring Sheet I (Revisoin of Project Design Matrix)

Implementing Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Environment (MWE) Project Title: The Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation Target Groups: MWE, RWSSD, District officers in charge of rural water supply and sanitation in the target districts Period of Project: 4 years from the date when the first JICA Expert is dispatched

Project Sites: Kampala (RWSSD) and 3 Districts (Kiboga, Mubende, and one district from Gomba, Butambala and Mpigi district)

October, 2015 Ver. 1

Overall Goal  Operation & maintenance (O&M) policy and system of rural water supply facilities improved area in Uganda  Project Purpose  ORM system of rural water supply facilities in the Central Region is improved districts, and system of the Central Government are adapted to wide area in Uganda  Functionality of rural water supply facilities in the target districts is increased from ** % to **	supply facilities in oved and hand washing ion is increased	Sector Performance Report	nondunasse meandan	Tremes content	KIRBICKS
- 2 6	1				
districts is increased from *** % to *** %  4. Household access to hand washing facilities in the target districts is increased from *** %  to *** %	s s s s	Sector Performance Report     Interview Survey     Sector Performance Report     Sector Performance Report	Policies on rural water supply are not significantly changed Financial resources which are currently allocated to the target districts are not significantly decreased in Central region		
I. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated as document	development on facilities and on is formulated	l Project documents	Financial resources currently allocated to the target districts are not significantly decreased		
2-1 Training program on O&M of rural water supply is formulated strengthened in the target districts  2-2 More than ** District officers in charge of water supply complete the training water supply complete the training 2-3 Supplementary documents of O&M are attached to the annual work plan of the target districts  2-4 O&M activities are implemented based on the annual workplans  2-5 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county 2-6 More than *** of non-functioning hand pumps in the target districts are repaired by HPMs or Hand Pump Mechanic Associations (HPMAs)		2-1 Project documents 2-2 Project documents 2-3 Annual Workplan 2-4 Project documents 2-5 Project documents 2-6 Project documents 2-7 MOU			



Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Rmarks
	2-7 Memorandum of Understanding (MoU) between the HPMA and the district local government is signed and renewed in the target districts				
3. Operational capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts	3-1 More than **9% of WSCs which are trained by the Project are functioning 3-2 More than *** of non-functioning hand pumps in the target districts are repaired by contribution of communities 3-3 More than *** of WSCs for piped water supply in Rural Growth Centers (RGCs) are set up and collect water tariff	3-1 Project documents 3-2 Project documents 3-3 Project documents			
<ol> <li>Capacity to supervise development of rural water supply facilities is strengthened</li> </ol>	4-1 More than ** of Groundwater Unit staff of MWE and District officers in charge of rural water supply complete the training 4-2 More than ** Technical Support Unit (TSU) staff are trained and complete the training	4-1 Project documents 4-2 Project documents			
5. H&S in the pilot communities is improved	5-1 More than ** of people and ** WSCs in the pilot communities are trained on hygiene and sanitation 5-2 Household access to latrines in the pilot communities is increased from ** % to ** % 5-3 Household access to hand washing facilities in the pilot communities is increased from ** % to ** %	5-1 Project documents 5-2 Interview survey 5-3 Interview survey			
6. Good practices and lessons learnt in the Project are shared widely with stakeholders (all relevant Ugandan institutions, other donors, NGO etc.)	6-1 Documents of good practices and lessons learned are distributed to stakeholders 6-2 Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized	6-1 Project documents 6-2 Project documents			







### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

Version of the Sheet: Ver.2 (Term: November, 2015 - May, 2016)

Name: Shinsuke Sugino

Title: Team Leader

Submission Date: 26 May 2016

### I. Summary

### 1 Progress

1-1 Progress of Inputs

**Progress of inputs is indicated in Monitoring Sheet Form 3-3.** 

### 1-2 Progress of Activities

**Progress of activities is indicated in Monitoring Sheet Form 3-3.** 

### 1-3 Achievement of Output

[Output 1:Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.]

- (1-1) Working Groups were set up.
- (1-2) Existing policy framework and laws were reviewed.
- (1-3) Baseline surveys were conducted.
- (1-4) A report of the present situation and challenges was prepared.
- (1-5) A project approach for capacity development is being formulated.
- (1-6) PDM (ver.2) and PO (ver.2) are being formulated.
- With regard to piped schemes, a report on the present situation and challenges and the project approach to capacity development on O&M of Rural Pied Supply schemes is formulated as the output 1 and shared in the second JCC.

[Output 2:O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.]

N/A

[Output 3: Operational capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.]

N/A

[Output 4: Capacity to supervise development of rural water supply facilities is strengthened.]

N/A

[Output 5: H&S in the pilot communities is improved.]

 H&S promotion will be implemented together with WSC retraining. Selection of communities for WSC retraining and H&S promotion is on-going.

[Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders (all relevant Ugandan institutions, other donors, NGO etc.).]

N/A

1-4 Achievement of the Project Purpose N/A

1-5 Changes of Risks and Actions for Mitigation N/A

- 1-6 Progress of Actions undertaken by JICA
- Project vehicles were procured.
- 1-7 Progress of Actions undertaken by Gov. of Uganda N/A
- 1-8 Progress of Environmental and Social Considerations (if applicable) N/A
- 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

N/A

- 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)
- A new division "Infrastructure O&M" has been set up.

### 2 Delay of Work Schedule and/or Problems (if any)

### 2-1 Detail

- Formulation of (1-5) a project approach for capacity development and (1-6) PDM (ver.2) and PO (ver.2) has been delayed.
- Selection of communities for WSC retraining and H&S promotion has been delayed.

### 2-2 Cause

- Technical Cooperation Team has found through the baseline survey that the current O&M system of hand pump facilities is not functional. JCC therefore has requested presenting several options to solve those challenges.
- The number of target communities for WSC retraining and H&S promotion will be determined depending on the approach to solve the challenges of current O&M system of hand pump facilities.

### 2-3 Action to be taken

- Unscheduled JCC meeting will be held in August 2016, and (1-5) a project approach for capacity development and (1-6) PDM (ver.2) and PO (ver.2) shall be agreed on that JCC meeting.
- Technical Cooperation Team will prepare several options by the time of 3rd JCC.

### 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

 RWSSD has a responsibility for the preparation of options in collaboration with Japanese Experts.

### 3 Modification of the Project Implementation Plan

### 3-1 PO

PO (ver.2) is being prepared. (See the attached Monitoring Sheet Form 3-3.)

### 3-2 Other modifications on detailed implementation plan

(Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HDQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)

N/A

4 Preparation of Gov. of Uganda toward after completion of the Project

N/A

II. Project Monitoring Sheet I & II as Attached

### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

**Improved Hygiene and Sanitation** 

**Version of the Sheet: Ver.3 (February 2017)** 

Name: Joseph Oriono Eyatu

Title: Project Director

Name: Shinsuke Sugino

Title: Chief Advisor

Submission Date: 6 March 2017

### I. Summary

### 1 Progress

### 1-1 Progress of Inputs

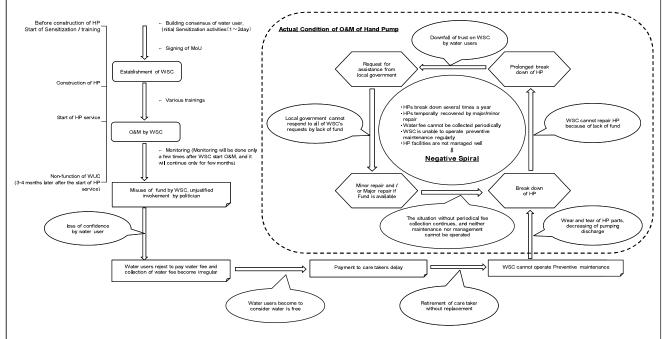
Inputs	Plan as of February 2017	Actual as of February 2017
Experts	Input from Japan	Input from Japan
	Total: 43.56MM/115.72MM (37.64%)	Total: 41.65MM/115.72MM (35.99%)
	8 Short Term Experts as follows:	Progress: -1.65% from the plan
	1. Chief Advisor/Rural Water Supply/	8 Short Term Experts as follows:
	Organizational Management (5.97MM)	1. Chief Advisor/Rural Water Supply/
	2. Vice Chief Advisor/Operation and	Organizational Management (5.53MM)
	Maintenance of Rural Water Supply	2. Vice Chief Advisor/Operation and
	Facilities (5.00MM)	Maintenance of Rural Water Supply
	3. Rehabilitation of Rural Water Supply	Facilities (4.70MM)
	facilities 1/Construction supervision 1	3. Rehabilitation of Rural Water Supply
	(0.86MM)	facilities 1/Construction supervision 1
	4. Hydrogeology 1 (2.00MM)	(0.86MM)
	5. Hydrogeology 2 (3.33MM)	4. Hydrogeology 1 (2.00MM)
	6. Hygiene and Sanitation 1 (4.53MM)	5. Hydrogeology 2 (3.03MM)
	7. Hygiene and Sanitation 2/Organizational	6. Hygiene and Sanitation 1 (4.53MM)
	Analysis 1/Monitoring and Evaluation 1	7. Hygiene and Sanitation 2/Organizational
	(2.00MM)	Analysis 1/Monitoring and Evaluation 1
	8. Society 1/ Organizational Analysis 2/	(2.00MM)
	Monitoring & Evaluation 2 (3.87MM)	8. Society 1/ Organizational Analysis 2/
		Monitoring & Evaluation 2 (3.00MM)
	1 Long Term Expert for Piped Water Supply/	1 Long Term Expert for Piped Water Supply/
	Collaboration (16.00MM)	Collaboration (16.00MM)

	Input from Uganda	Input from Uganda
	1. Mutiibwa Robert (Principal Water Officer),	1. Mutiibwa Robert (Principal Water Officer)
	Project Manager	Project Manager
	2. Ssenfuma Samuel (Hydrogeologist),	2. Katumba Willy (Borehole maintenance
	Liaison Officer	supretendant)
	3. Enangu Moses (Senior Assistant),	3. Kwagalakwe Asenath (Graduate Trainee)
	Liaison Officer	4. Kajumba Grace (Graduate Trainee)
	4. Martha Naigaga (EHO)	5. Alamai Marion (Graduate Trainee)
	Liaison Officer	6. Martha Naigaga (EHO)
	5. Marcia Tusiime (EHO)	7. Marcia Tusiime (EHO)
	Liaison Officer	8. Tubenawe Lawrence (EHO Trainee)
	6. Eng. Bateganya David (Senior Engineer)	9. Alibu Steven (EHO Trainee)
	Liaison Officer	10. Eng. Bateganya David (Senior Engineer)
	7. Adima Israel (Engineer)	Liaison Officer
	Liaison Officer	11. Adima Israel (Engineer)
	8. Mugeiga Kato (Social Scientist)	Liaison Officer
	Liaison Officer – Piped water schemes	12. Mugeiga Kato (Social Scientist)
	9. Bisoborwa Paul (Social Scientist)	Liaison Officer – Piped water schemes
	Liaison Officer – Point water sources	13. Bisoborwa Paul (Social Scientist)
	10. Nakasagga Jackline (Social	Liaison Officer – Point water sources
	Scientist-Trainee)	14. Sabila Eva (Social Scientist)
	Liaison Officer	15. Akankwasa Joyce (Social Scientist)
		16. Nakasagga Jackline (Social
		Scientist-Trainee)
		Liaison Officer
Equipment	Water Quality Analysis Kit:	All equipment had been procured in 2016 as
	2. Operation and Maintenance Tools for Rural	per Attachment 1.
	Water Supply:	
Training	Training in Uganda is planned to start from	Training in Uganda is planned to start from
	April.	April.
Ugandan Side	Allocation of counterparts and	Allocation of counterparts and
Operational	administrative personnel (Project	administrative personnel (Project
Expenses	Director, Project Manager and	Director, Project Manager and
	Counterparts)	Counterparts)
	2. Equipment (Two vehicles, equipment and	2. Equipment (Two vehicles, equipment and
	materials for administration of the Project)	materials for administration of the Project)
	3. Allocation of office space and facilities	3. Allocation of office space and facilities
	(office space for JICA experts in Kampala	(office space for JICA experts in Kampala
	and the target districts, and other	and the target districts, and other
	necessary facilities, equipment and	necessary facilities, equipment and
	materials for administration of the Project)	materials for administration of the Project)
	4. Counterpart-related costs (including	4. Counterpart-related costs (including
	salary, allowance and traveling cost for	salary, allowance and traveling cost for

		counterparts)		counterparts)
	5.	Running expenses necessary for the	5.	Running expenses necessary for the
		implementation of the Project		implementation of the Project

### 1-2 Progress of Activities

- Kick-off meeting of the Project between Ugandan side and Japanese side was held on 6 October 2017 and the project activities in Uganda have been commenced officially.
- JCC1 was held on 18 November 2015. JCC1 agreed that the target districts of the Project are to be Kiboga,
   Mubende, Butambala and Mpigi. JCC1 also agreed the counterpart staff from MWE and has adopted PDM (ver.1) and PO (ver.1).
- Workshop on the Project activities participating with the entire RWSSD staff was held on 24 March 2016 to explain the result of baseline survey and propose the draft activities of future's activities of the Project. The Project Team has also presented several O&M systems of rural water supply facility instead of the current CBMS concept.
- JCC2 was held on 26 May 2016. The counterpart staff and Japanese experts (hereinafter referred to as "the Team") explained the analysis result of baseline survey and JCC2 has accepted about the baseline survey findings. The findings by baseline survey shows that the current O&M system based on CBMS concept does not function properly and then the Team analyzed the causes of non-functional O&M system. According to the analysis, the Team found the following process of the collapse of O&M system based of CBMS concept.



The Team also explained the following challenges of current O&M system.

- 1) Loss of confidence on WSC by water users.
- 2) Water users become to consider water is free.
- 3) Retirement of care taker without replacement.

- 4) Wear and tear of hand pump parts, decreasing of pumping discharge.
- 5) WSC cannot repair hand pump because of lack of fund.
- 6) Downfall of trust on WSC by water users.
- 7) Local government cannot respond to all of WSC's requests by insufficient fund.
- 8) The situation without periodical fee collection continues, and neither maintenance nor management cannot be operated.
- 9) Other associated indirect challenges.

JCC2 discussed above challenges and agreed on the necessity of creation of alternative options of O&M system instead of the current O&M system. JCC2 tasked the Project Team to propose options regarding the project strategy and future's activities of the Project.

- The Team worked in accordance with the instruction of JCC2 and achieved results as below;
  - (1) Prospect of Counter Measures for Challenges

The Team analyzed the causes and found that various actors made effects in each causes, therefore, several inputs for all actors shall be required in the same time to solve such causes of the challenges. Alternative measure must be the one which can meet the requirement.

Based on the idea, the Team examined the counter measures at each actor level for each challenge and then created the alternative O&M systems by combining with each counter measure to each challenge. The procedure of these works is as below.

Firstly, the Team identified the difficulties presented at the meeting held on March 24th, 2016 with the challenges of current O&M system as referred to above and examined the causes of difficulties.

Secondly, the Team categorized the causes of difficulties at each actor level and at each field of measure. The Team also generalized the critical challenges of current O&M system and showed the relationship between the field of measures and the critical challenges of current O&M system. Then the Team created the options of counter measure on each critical challenge of current O&M system, analyzed and evaluated them based on the current situation of O&M of rural water supply facility.

Thirdly, the Team created the alternative O&M systems based on the current O&M system by combining the options of counter measure. The Team set up 8 models of alternative option instead of the current O&M system as follows.

- 1) Regenerated CBMS O&M System
- 2) Local Government-Mediated Management O&M System
- 3) WSSB Indirect Management O&M System
- 4) WSSB Direct Management O&M System
- 5) Josef & Teluca (Kiringente Sub-county) O&M System
- 6) District Indirect Management O&M System
- 7) District Direct Management O&M System
- 8) District & Agency Direct Management O&M System

The Team agreed the procedure to derive alternative options of O&M system from challenges.

### (2) Evaluation of Alternative Options instead of the Current O&M System

The Team evaluated each alternative option of O&M system derived from above works.

Firstly, the Team evaluated the efficiency of each alternative option of O&M system. According to the evaluation, the most efficient system is "District & Agency Direct Management O&M System" and the next best option is "District Direct Management O&M System". The worst option is "Regenerated CBMS O&M System".

Secondly, the Team evaluated the feasibility of each alternative option of O&M system. According to the evaluation from the viewpoint of initial cost, the implementation of "Regenerated CBMS O&M System" is easier than other systems and "District & Agency Direct Management O&M System" is the most costly among the systems. The implementation of "District Indirect Management O&M System" and "District Direct Management O&M System" also requires high initial cost.

Thirdly, the Team evaluated the sustainability of each alternative option of O&M system. According to the evaluation, "Regenerated CBMS O&M System", "Local Government-Mediated Management O&M System", "WSSB Indirect Management O&M System", "WSSB Direct Management O&M System" and "Josef & Teluca (Kiringente Sub- county) O&M System" have heavy dependency on the District Water and Sanitation Conditional Grant (DWSSCG) if the hand pump facilities require major repairs. However, DWSSCG is a quite limited budget. Therefore, all of major repairs requested by WSC in the district cannot be implemented at once and then the downtime of some hand pump facilities would become several months. On the other hand, for "Regenerated CBMS O&M System", "Local Government-Mediated Management O&M System" and "WSSB Indirect Management O&M System" employment of caretaker is necessary by each WSC. This also brings the difficult situation on O&M of hand pump facility because many WSCs could not manage their collected water fees. This fact was confirmed through the baseline survey. Without any transparency and accountability of WSC, water users don't pay the water fees. And according to the baseline survey, WSC cannot employ caretaker because of the lack of their budget. If the Government of Uganda try to secures the transparency and accountability on accountant of WSC, the audit system should be established for WSC to secure the transparency and accountability. However, to ensure audit system in each WSC is impossible due to its high cost.

In "District Direct Management O&M System" and "District & Agency Direct Management O&M System", the service center would ensure the audit system and have a responsibility to collect water fees in the district. Thus, service center could secure enough budgets to manage the system itself. And those systems can secure the budget for a lot of the major repairs by using collected water fees.

Regarding the relationship between scale of system and cost, if we can minimize the target area of system, initial costs would be decreased.

### (3) System Selection for the Project

The Team inventoried above evaluation results and agreed that. The Team has also agreed the following overviews through the discussion of alternative options of O&M system.

1) "District & Agency Direct Management O&M System" is the best solution in order to secure the

- sustainability of O&M in rural water supply sector. However, it takes the highest initial cost because of procurement of expensive equipment.
- 2) "District Direct Management O&M System" is the second best solution. If the Government of Uganda doesn't have any rehabilitation equipment such as a service rig, the district has to implement the major repairs by the entrustment to private companies. Furthermore, the Government of Uganda has to instruct the service center to implement the continual preventive maintenance at each water point in this system. By such preventive maintenance, the system may decrease the number of request for major repairs from WSCs.
- 3) If the Team adopts "District Direct Management O&M System" as a pilot subprogram in the Project, the Team has to consider the scale of operation for a pilot subprogram. In case the Team selects the entire district, the risk of failure of the Project would become high. According to the simulation, it is suitable to adopt 170 WSCs approximately as target WSCs for a pilot subprogram in the Project for the start.
- 4) At the local government level, by-laws will have to be enacted for proper operation of the proposed O&M system.
- 5) It is necessary to establish the strategy to show the procedure of improvement of O&M system for rural water supply in the Project. The outline of strategy is expected to be as below;
  - "District Direct Management O&M System" shall be adopted as a pilot system of rural water supply for a pilot subprogram in the Project and the target WSCs shall be approximately 170 WSCs at first.
  - Necessary equipment such as motor bikes for Hand Pump Mechanics shall be purchased neither by the budget of the government nor budget of the Project. Those shall be purchased by the deposited water fees saved in the service center because the Project will implement the rehabilitation or replacement of 50 hand pump facilities at the beginning of the pilot subprogram, therefore such fees may not be used for major repairs of water points in the early stage.
  - The number of target WSCs shall be increased during or after the Project implementation period depending on the result of monitoring of the Project activities.
  - If the Government of Uganda purchases the necessary equipment for the Agency such as a service rig, it is necessary to examine the feasibility of establishment of the Agency. If the result of that is feasible, the Agency shall be established during or after the Project implementation periods depending on the situation of a pilot subprogram implemented in the Project. In case the Counterpart has a will to establish the Agency during the Project implementation periods, the Counterpart shall evaluate the feasibility of the establishment of the Agency with JICA and the Consultant in advance.

Through above discussion, the Team agreed to implement the pilot subprogram for "District Direct Management O&M System" at 150 WSCs approximately in 4 sub-counties in the Project. The Team also

agreed to implement the pilot subprogram in Mubende District. The reasons of selection of target district for the pilot subprogram are as below;

- 1) The reason of selection of Mpigi District for the Project target districts is to monitor the new O&M system in Kiringente Sub-county conducted by Mpigi DWO and the Japan Overseas Cooperation Volunteer. Therefore, Mpigi District is not suitable for the pilot subprogram now.
- 2) The reason of selection of Butambala District for the Project target districts is to implement the capacity development of DWO staff because Butambala District was divided as new district from other district and DWO staff doesn't have much experience and knowledge regarding the rural water supply scheme. Therefore, Butambala District is not suitable for the pilot subprogram now
- 3) If the Team implement the pilot subprogram in the Project, it is preferable to do it in a limited area in order to be maximized the impact and gain favorable information from the pilot program. The Team confirmed that it is suitable area to implement the pilot subprogram at 170 WSCs. Therefore, the Team has to select only one district for the target district of pilot subprogram among Kiboga and Mubende District. In order to do this, the Team decided to set some criteria for the adoption as the target district of pilot subprogram as below;
  - Low functionality of hand pump in the district because the Project has a purpose to improve the functionality of hand pump in the Project target districts.
  - Low functionality of WSCs in the district because the function of WSCs is one of the important factor to implement O&M properly.
  - Low number of alternative water sources in the district because the area where doesn't have several water sources is high water stress area.
  - Large number of functional WSCs in the district because it is necessary to secure more than 30 WSCs per sub-county to implement the pilot subprogram according to the simulation of "District Direct Management O&M System".
  - Large number of water users in the district because it is necessary to secure 160 water users approximately per water point to implement the pilot subprogram according to the simulation of "District Direct Management O&M System".
  - Large number of hand pumps facilities constructed by Japan because the Project is carried out by the Japan's Official Development Assistant. This could be an appropriate relevance of the project.
- 4) The Team examined and confirmed the following facts;
  - a) The functionality of hand pump in Kiboga and Mubende Districts are 81 % and 66 % each.
  - b) The functionality of WSCs in Kiboga and Mubende Districts are 69 % and 49 % each.
  - c) The rate of community where doesn't have any access to alternative water sources in Kiboga and Mubende Districts are 12 % and 26 % each.
  - d) The average number of functional WSCs per sub-county in Kiboga and Mubende Districts

are 20 WSCs and 33 WSCs each.

- e) The number of water users per WSC in Kiboga and Mubende Districts are 90-120 households and 100-200 households each.
- f) The number of hand pump facilities constructed by Japan's Grant Aid in Kiboga and Mubende Districts are 46 and 72 facilities.
- 5) Firstly, the criteria a), b) and c) are also one of the important factors to confirm the demand of reorganizing water supply scheme. The both functionality of hand pump and functionality of WSCs in Mubende District are lower than those in Kiboga District, and the alternative water resources in Mubende District is less than that in Kiboga District. In this situation, the Team agreed that the demand in Mubende District is higher than that in Kiboga District.
- 6) Secondly, the average numbers of functional WSCs per sub-county and the average numbers of water users per WSC in Mubende Districts are larger than those in Kiboga District. This situation is suitable to secure the necessary numbers of WSCs and water users in 4 sub-counties only.
- 7) Thirdly, the number of hand pump facilities constructed by Japan's Grant Aid in Kiboga and Mubende Districts are 46 and 72 facilities. If Mubende District is selected as the target district for pilot subprogram, the Government of Japan would consent to our decision easily.

### (4) Determination of H&S activities

1) Review of the Current H&S Situation

The Team discussed the improvement of O&M system as above. However, the main topics of above discussions are only the issues of O&M framework in fact, and the comprehensive issues of the Project are not contained. Meanwhile, the Project is implemented not only to improve O&M system of rural water supply facilities but also to improve H&S in the target districts. It means that the improvement of H&S is also an important issue in the Project. In this situation, the Team carried out the baseline survey in the 1st stage of the Project. According to the result of survey, the Team found that more than 90 % of people in the target districts are already using latrines actually. It is definitely difficult situation to achieve further improvement of access to latrines in the Project. Meanwhile, the access to hand washing facilities in the target districts are between 40 and 60 % according to the result of baseline survey. However, both activities in the Project are to generalize the sanitation facilities at each house, but the budget to install those facilities at each house should be borne by each household. This logic also brings difficult situation to the Project because there is no feasibility to achieve the current project purpose in the Project.

On the other hand, the Team found high morbidity rate of waterborne diseases in the target districts according to the result of baseline survey. The records of health center, clinic, etc. show that morbidity rates of Typhoid and Diarrhea are 3-4 % and 2-3 % each. However, the result of baseline survey shows that morbidity rates of Typhoid and Diarrhea are 17-48 % and 10-36 % each in the target districts. The difference of those data would be caused by the following facts;

- The records of health center, clinic, etc. are based on the number of patients who came to medical institutions for treatment. However, many patients in rural area would not enable to go to medical institutions due to luck of transportation, severe manifestations, etc., and some of patients would use medicines for treatment. This means that the result of baseline survey would show the actual situation of morbidity rate in the target districts.

The Team also found that even water users obtain the safe water from the hand pump facilities, their jerry cans to transport safe water from the facility to their houses are contaminated by E. col and or general bacteria. The casual relationship between those contamination and waterborne diseases is not confirmed clearly. However, the Team deems that this might be one of the causes of waterborne diseases.

2) Project Strategy for Improvement of O&M System of Hand Pump Facilities with a Focus on H&S In consideration of above facts, the Team recommended to return to the starting point of historical rural water supply scheme. In previous times, one of the main purposes of rural water supply scheme using by hand pumps is to reduce the morbidity rate of waterborne diseases, and now the morbidity rate of waterborne diseases in the world has decreased though the safe water supply using hand pumps by sheer dint of effort of the State, international organization, donors, NGOs, etc. Meanwhile, the purpose which is to reduce the morbidity rate of waterborne diseases has been mentioned associated with the collection of water fees.

However, many water users in the target districts don't want to pay the water fees according to the result of baseline survey. This means that many water users in the target districts are forgetting the significant purpose of rural water supply scheme regarding the relationship between safe water and H&S. It is quite serious situation to maintain the water supply facility and health condition of people in rural area. Therefore, the Team believed that it is necessary to establish the Project Strategy both of O&M of water supply facility and H&S (hereinafter referred to as "the Strategy").

The Team decided to adopt the Strategy as the Concept for the Project and implement the Project in accordance with the Strategy. The main concepts of the Strategy are as below;

- a) Conceptual integration of "Sanitation and Hygiene" and "Safe Water", and raising awareness of water users.
- b) Synergetic effect of H&S activities and improvement of O&M system.
- c) Early exhibition and promotion of project effect utilizing the view of Gender
- H&S Activities in the Project

The Team examined the H&S activities in the Project according to the Strategy and modified the H&S activities as below;

- a) Enlightenment activities to improve quality of house latrines by using sanitation ladder method and to assure use of latrines.
- b) Enlightenment activities of the improvement of access to hand washing facilities, the continuous safe water refilling to hand washing facilities and the promotion of behavioral change of people.

- c) Contribution to reduce the morbidity rate of waterborne diseases through observing safe water chain. (eg. washing containers used to carry and store water).
- d) Promotion of H&S enlightenment to improve the sanitary concept, especially the relationship between H&S and safe water.
- (5) Proposed Project Activities to be submitted by the Team at JCC3

The Team has decided to explain to JCC3 regarding above discussions and decision, and obtain the approval of JCC3 for the implementation of "District Direct Management O&M System" in 4 sub-counties of Mubende District as a pilot subprogram at JCC3. Furthermore, the Team also has decided to suggest JCC3 regarding the modification of PDM ver.1 for the implementation of "District Direct Management O&M System" as a pilot subprogram.

- JCC3 was held on 25 August 2016 and has adopted PDM (ver.2) and PO (ver.2). JCC3 has decided the new
  O&M system of rural water supply to be innovated instead of the current O&M system based on CBMS under
  the subprogram in the Project as below;
  - (1) JCC3 agreed to implement trial of District Direct Management O&M System. The district agreed upon is Mubende.
  - (2) The Team proposed to implement the selected system as a pilot subprogram in four sub-counties in Mubende District. MWE was in the view that the pilot should cover the entire district as a principle of Government of Uganda. JCC3 agreed that the scope of the number of sub-counties covered under the Pilot Subprogram is reviewed. JICA will consult further on this issue before the final position can be reached.
  - (3) A revised project work plan for the remaining activities over the remaining project duration will be prepared by the team. The result will be presented in JCC4.
  - (4) JICA and MWE will consider options for financing the budget.
- MWE and the Team discussed how to implement the pilot subprogram including the scope of work, the target area, the legal framework to implement the Pilot Subprogram, implementation method and budget among others. The Team came up with an overall work plan to implement the Project including the Pilot Subprogram in late November 2016 and held the final meeting on 6 December 2016 to confirm the future's activities of the Project. Through a series of discussions, MWE and the Team agreed on the matters as below;
  - (1) Scope of Work of the Project

MWE and the Team revalidated the modified scope of work of the Project shown in PDM ver.2 approved in JCC3. The Project consists of not only the activities of the Pilot Subprogram in Mubende District but also the activities in three control target districts (Kiboga, Butambala and Mpigi) as shown in PDM ver.2.

MWE and the Team also confirmed and agreed on the schedule of the Project. The detailed work plan of the Project shall be drafted by the end of January 2017, and the Team shall present it at JCC4 in February 2017.

(2) Responsibility of the Project

The responsible organization, the executing organization, and the implementing organizations are MWE,

RWSSD and four district local governments (Kiboga, Mubende, Butambala and Mpigi) respectively. The overall responsibility of the Pilot Subprogram is under MWE and the Pilot Subprogram is to be executed under the supervision of RWSSD and the Team.

### (3) Outline of the Project and Pilot Subprogram

The Project covers four districts (Kiboga, Mubende, Butambala and Mpigi), although the proposed O&M system will be implemented in only Mubende District. The existing O&M system for the rural water point sources that incorporates CBMS will be promoted in the three control districts. These three districts will act as a control in the framework of Pilot Subprogram. The targeted hand pump wells in Kigoba, Butambala and Mpigi that require rehabilitation amount to 432 (SPR 2016). When the aspect of yield and water quality is considered, only 55 % pass the criteria (Baseline Survey, February 2016). Therefore, the estimated number of hand pumps that are eligible for rehabilitation in the three control districts of Kiboga, Butambala and Mpigi is 238. This rehabilitation work is to be undertaken by MWE.

The number of sub-counties to implement the Pilot Subprogram is estimated to be 18 sub-counties in Mubende District. The main purpose of the Pilot Subprogram is to implement trial of sustainable O&M system for rural water supply facilities. To achieve the purpose, a water service provider (hereinafter called as "the Service Center") shall be put in place at the district level with a primary purpose of providing full O&M support to all rural water sources in the district.

When Service Centers set up in several districts become fully instituted and operational, there will be a need for establishment of a regional body in order to coordinate and support the activities of Service Centers. Such support is expected to include provision of specialized O&M services for solar powered rural water supply system and major rehabilitations after the Project completion. As earlier mentioned, MWE has concluded that RWSSD shall be responsible for day-to-day running and management of Service Centers over the Project implementation periods.

### (4) Challenges of the Pilot Subprogram

The Pilot Subprogram is to be implemented as a trial to improve the current O&M system of rural water supply facilities till August 2019. If the Pilot Subprogram works successfully, the proposed O&M system in Mubende District will be utilized as a model case for improved O&M system of rural water supply facilities in the Republic of Uganda.

However, success of the Pilot Subprogram during the Project implementation period is not guaranteed due to un-expected circumstances beyond the control of the related organizations (MWE, RWSSD and the Mubende District Government). In case some short comings are realized in the new O&M system trial under the Pilot Subprogram, MWE, RWSSD, the Mubende District Government and the Team working close with JICA shall take the necessary actions to solve the problems.

MWE, the Team and JICA shall evaluate the performance and result of the Pilot Subprogram at every JCC meetings. The Team shall present lessons learnt from the Pilot Subprogram, summarize the necessary modifications to the proposed O&M system (if any) and propose the recommendations for suitable O&M system for the future.

### (5) Legal Framework of the Pilot Subprogram

The current Water Act (1997) gives the Minister of Water and Environment authority to gazette water authority, set tariff and put in place a transitional framework to enable appropriate management of a given water supply facility (system). MWE therefore confirmed that the Pilot Subprogram would be conducted within the framework of the current Water Act (1997) and shall confirm necessary procedures to establish the Service Center and inform JICA by the end of February 2017.

### (6) Target Area of the Pilot Subprogram

MWE acknowledges that the Pilot Subprogram will be implemented basically in 18 sub-counties in Mubende District, but the number of sub-counties is variable depending on the situation. MWE also agreed that the target WSC shall be selected with the criteria.

The estimated number of target WSCs is 315 based on the result of baseline survey of the Project. However, the number is calculated only for planning purposes and thus the actual number of target WSCs is variable reflecting the actual situation of WSC and water source.

- (7) Acceptance of Implementation of the Pilot Subprogram by the Mubende District Government MWE and the Team had a meeting with the Mubende District Government on 30 November 2016 and the both sides agreed on the implementation of Pilot Subprogram in Mubende District.
  Mubende District Government shall obtain consent from sub-county local government to implement the
  - Pilot Subprogram in Mubende District by the end of December 2016 with support from MWE and the Team. MWE shall inform the result to JICA by the end of January 2017.
- (8) Method of Well Rehabilitation Works under the Pilot Subprogram MWE and the Team agreed that the well rehabilitation works shall be conducted by the direct construction management method by the Team in order to minimize the cost.
- (9) Method of Awareness Campaign and Training of WSC under the Pilot Subprogram

MWE and the Team acknowledge that the extension workers in each sub-county have a key role to play in activities and therefore, the Training of Trainers (hereinafter referred to as "ToT") to the extension workers is applied in the Project. Awareness campaign and training of WSC shall be conducted through the following procedures, which are agreed upon by MWE and the Team:

- 1) Preparation of educational tools for ToT by hired Ugandan consultant under the supervision by the Team and MWE
- 2) ToT to the district staffs and the sub-county staffs for awareness campaign and training of WSC by hired Ugandan consultant under the supervision by the Team
- 3) On the job training (hereinafter referred to as "OJT") to the sub-county staffs for awareness campaign and training of WSC by hired Ugandan consultant under the supervision by the Team
- 4) Awareness campaign and training of WSC by trained extension workers under the instruction, supervision and monitoring by the Team

On the other hand, the method of awareness campaign and training of WSC in three target districts (Kiboga, Butambala and Mpigi) shall be conducted through the following procedures:

- 1) Preparation of educational tools for ToT by hired Ugandan consultant under the supervision by the Team and MWE
- 2) ToT to the district staffs for awareness campaign and training of WSC by hired Ugandan consultant under the supervision by the Team and MWE
- 3) ToT to the sub-county staffs by the district staff under the supervision of the Team and MWE
- 4) Awareness campaign and training of WSC by the sub-county staffs under the instruction and monitoring of the Team and MWE

### (10) Necessary Personnel to Implement the Project

MWE and the Team agreed necessity of MWE personnel to implement the Project in line with estimation by the Team in November 2016, as well as Local Government personnel to implement the Pilot Subprogram.

The Team requested MWE to dispatch at least 2 resident staffs in Mubende District from MWE personnel (or trainee) between January 2017 and August 2019 for the Pilot Subprogram in order to master the introduction method of proposed O&M system in other districts, and to adopt the resident staff as a regular staffs of MWE after the Project (if the resident staff is a trainee).

MWE promised to secure the personnel to implement the Project.

### (11) Necessary Budget to Implement the Project

The Team estimated the budget required to implement the Project over the Project implementation periods. 540 million JPY (approximately 4.8 million USD) is the required budget from JICA and UGX2,028,276,000- (32% is for the Pilot Subprogram and 68% is for the program to be carried out at the control districts) is the required budget from MWE. JICA has already secured the budget. The amount of the counterpart budget was brought to the attention of MWE and the Team requested MWE to make a commitment to secure the budget for proper project implementation. JICA requested MWE to provide confirmation of availability of the Budget.

MWE promised to secure essential budget and give feedback to JICA on the budget commitment before the end of January 2017 at latest.

MWE and the Team noted that the activities of Pilot Subprogram might be downscaled if the required budget for the activities was not disbursed to the Mubende District Government from MWE on timely basis starting from February 2017.

During the implementation of the Pilot Subprogram, MWE will consult with the Mubende District Government on the possibility of using part of the conditional grant to finance some activities of the Pilot Subprogram.

### (12) Budgetary Policy of JICA for the Implementation of the Project

MWE and the Team agreed on the following budgetary policy of JICA to implement the Project including the Pilot Subprogram:

 JICA cannot increase the budget to implement the Pilot Subprogram, and JICA cannot divert funds, which shall be used for the activities in the three control target districts, to the Pilot Subprogram.

- 2) The Team has to find the best way to achieve maximum results of Pilot Subprogram within the limited budget borne by both MWE and JICA.
- 3) MWE has to allocate the budget for the parts which cannot be covered by JICA funds if necessary.
- 4) The Team has to monitor the activities funded by MWE and give instructions where necessary in order to assure the quality of activities and develop the capacity of extension workers.
- Record of Discussions signed on 6 July 2015 for the Project is being amended in accordance with PDM (ver.2)
   and PO (ver.2).
- JCC4 was held on 15 February 2017. The Team explained the modified activities of the Project and the work plan, and the JCC member confirmed them.
- Activities for Output1: All activities have been completed.
- Activities for Output2: Activity 2-1, 2-2, and 2-4 have been in progress as planned.
- Activities for Output3: All activities are planned to start later on.
- Activities for Output4: All activities are planned to start later on.
- Activities for Output5: Activity 5-1 has been in progress as planned.
- Activities for Output6: All activities are planned to start later on.

### 1-3 Achievement of Output

- PDM (ver.2) and PO (ver.2) have been agreed in JCC3 on 25 August, 2016.
- The details of the change are described in Attachment 2.

\*OT: On time, SFT: Schedule for later, DL: Delay Output/Indicators Major Results Status\* Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated. 1) Project approach for capacity development on Necessary documents had already prepared as O&M of rural water facilities and improvement below: of H&S condition is formulated as document. a) Progress Report (No.1) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene Sanitation (June 2016) b) Technical Note on the Operation Maintenance System of Rural Water Supply for the Project for Operation & Maintenance for OT Rural Water Supply and Improved Hygiene and Sanitation (2 September 2016) c) Minutes of Meeting on the Discussion of the Second Stage Activities for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (6 December 2016) d) Work Plan (2nd Edition) for the Project for

Operation & Maintenance for Rural Water

		Supply and Improved Hygiene and Sanitation (January 2017)	
Out	nut 2: O&M sunnort system of rural water sunn	y facilities in the public and private sectors is strengthe	aned in the
Out	target districts.	y radinites in the public and private sectors is strengthe	siled iii tile
1)	Training program on O&M of rural water supply is formulated.	Training program on O&M of rural water supply has been formulated as below;     a) Scope of Works for Training of Trainers on O&M of Rural Water Supply (August 2016)     b) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	ОТ
2)	More than 20 staffs from RWSSD and the	- Sub-consultant for ToT is now under the	
,	target districts in charge of water supply and	selecting procedure.	ОТ
	sanitation receive the ToT.		
3)	Collection rate of water fees reaches more	- N/A	
	than 70% in the selected user communities		SFT
	within the pilot subprogram area.		
4)	O&M activities are implemented based on the	- N/A	ОПТ
	annual work plans.		SFT
5)	At least two Hand Pump Mechanics (HPMs)	- N/A	SFT
	are trained on site in each sub-county.		SF I
6)	An average of 20 damaged hand pumps are	- N/A	SFT
	repaired by each trained HPMs per year.		
7)	Memorandum of Understanding (MoU) between the HPMA and the district local government is signed and renewed in the target districts.	- N/A	SFT
Out	put 3: Operational and management capacity o target districts.	f Water and Sanitation Committee (WSC) is strengthe	ened in the
1)	More than 85% of WSCs which are trained in	- N/A	057
	the Project are performing their roles.		SFT
2)	O&M of piped water supply facilities is	- N/A	CET
	improved where activities are implemented.		SFT
Out	put 4: Capacity to supervise development of rura	al water supply facilities is strengthened.	
1)	More than 12 staffs from RWSSD and the	- N/A	
	target districts in charge of rural water supply		SFT
	and sanitation complete the training.		
Out	put 5: H&S in the selected communities is impro	ved.	
1)	At least 6 staffs from sanitation unit and TSU, $$	- N/A	
	and at least 3 staffs from each target districts		SFT
	receive the ToT on awareness campaign for		<u> </u>
	H&S in the selected communities.		
2)	More than 75% of extension workers (CDO	- N/A	SFT

Π		and HA) in the target districts are trained on		
		awareness campaign for H&S in the selected		
		communities.		
	3)	More than 75% of the trained extension	- N/A	
	-,	workers (CDO and HA) in the target districts		
		implement awareness campaign for H&S in the		SFT
		selected communities.		
	4)	Household access to latrines in the selected	- N/A	
	٦)	communities is increased from 76 % to 77 %.	- 14/74	SFT
-	-\		N/A	
	5)	Household access to hand washing facilities in	- N/A	
		the selected communities is increased from		SFT
		28 % to 32 %.		
	Out	put 6: Good practices and lessons learnt in the	e Project are shared widely with stakeholders in the	water and
		sanitation sector.		
	1)	Documents of good practices and lessons	- N/A	
		learned are distributed to stakeholders.		SFT
	2)	Learning platforms (e.g. workshops) to	- N/A	
	•	disseminate good practices and lessons		SFT
		learned are organized.		
⊢				

### 1-4 Achievement of the Project Purpose

- N/A

### 1-5 Changes of Risks and Actions for Mitigation

- N/A

### 1-6 Progress of Actions undertaken by JICA

- Project vehicles were procured.

### 1-7 Progress of Actions undertaken by Gov. of Uganda

The budgetary steps of Ugandan side have been launched.

### 1-8 Progress of Environmental and Social Considerations (if applicable)

- N/A

## 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

- N/A

### 1-10 Other remarkable/considerable issues related/affect to the project (such as

## other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

- A new division "Infrastructure O&M" has been set up under the Rural Water Supply and Sanitation Department in the MWE.

### 2 Delay of Work Schedule and/or Problems (if any)

### 2-1 Detail

- Approval of PDM (ver.2) and PO (ver.2) has been delayed.

### 2-2 Cause

- The discussion between the Project Team, MWE and JICA on the modification of project activities of the 2nd stage had been tangled due to the applicable scope of the Project and the burden of expenses. However, the Project Team and MWE have agreed on the issues of the applicable scope of the Project and the burden of expenses on December 6th, 2016, and the Project Team has reported the modified project activities of the 2nd stage at the 4th JCC meeting on February 15th, 2017.

### 2-3 Action to be taken

- R/D on the modification of PDM will be agreed between MWE and JICA soon.

### 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

- The Project Team has a responsibility for the explanation of modified PDM to MWE and JICA.

### 3 Modification of the Project Implementation Plan

### 3-1 PO

- PO (ver.2) was prepared. (See the attached Monitoring Sheet Form 3-3.)
- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - N/A

### 4 Preparation of Gov. of Uganda toward after completion of the Project

- N/A

Ver. 3

Project Monitoring Sheet II (Revision of Plan of Operation)

Pro	Project Title: The Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation	ıral Water Sup	Supply and Improved Hygiene and Sanitation	Dated: February, 2017
	INPUTS	Expertin charge Ac	Plan/ 2015   2016   2016   2017   2018   2018   2018   2018   2019   2	Remarks Moritoring Issue Solution
찣	Expert			
	Chief Advisor / Rural Water Supply / Organizational Management	Mr. Shinsuke Sugino Actua	Plan  Action  Action	
	La La	Mr. Hdekuni Usami Actual	Para Para Para Para Para Para Para Para	
	Rehabilitation of Rural Water Supply facilities 1/Construction surrenvision 1	Mr. Tatsuo Pla Tomiobkoro Ao	P (a)	
	Rehabilitation of Rural Water Supply facilities 2/Construction supervision 2	۰		
	-	Mr. Masayuki Ogata Ao	a Pean Actual	
	Hydrogæology 2	Mr. Yasuhide Nigauri Actua	ii Pean Actual	
	Hygiene and Sanitation 1	Ms. Yuko Hishida Ao		
	Hygiene and Sanitation 2 / Organizational Analysis 1 / Monitoring and watustion 1	ý	in Plan Actual	
	Financi al Management	Mr. Yusuke Pla Furukawa Ao	Plan Actual	
	Labor Management 1	w w	Pan Actual	
	$S\alpha iety \ 1 \ / \ Organization d$ Analysis $2 \ / \ Monitoring \ \& \ Evaluation \ 2$	Ms. Erina Kan	Pian Adial	
	O&M of Rural Water Supply Facilities 2 / Labor Management 2 / Society 2	Ms. Kei Omi Pla	Plan Actual	
	Piped Water Supply / Collaboration	Mr. Daisuke Pla Sakamoto Ac	Plan Actual	
囧	Eq uipm ent			
	Water Quality Analysis Kit	PI	Plan Actual	
	Operation and Maintenance Tods for Rural Water Supply	A P	Plan Actual	
		PI	Plan Actual	
Tra	Training in Japan o rthird country			
		PIE	Pian Actual	
- -	In -country Training			
		Pk	Plan Actual	

		<		Japan   COU   Commission
Outpu	Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition	ater supp ly facil	facilities and improvement of H&S condition is formulated.	
<del>-</del>	Set up a Working Group (WG) to discuss the framework of O&M system of rural water supply facilities and improvement of sanitation	Sugino	Plan Adtail	
1-2	of	Usami/ Hishida/ P	Plan Published Actual	
1-3		Sugino/Takahashi Plan /Sakando Actua	ishi Pian Adusi	
1-4	Share findings of good practices and lessons learnt of rural water	je.		
	supply and sanitation at the WG and prepare a report of the present Formulate a project amonach for capacity development of relevant	Sakamoto A.	Adual Plan	
1-5	institutions based on the results of activities 1-2-1-4			
1-6	Formulate PDM(ver2) and PO(ver2)	Sugino / Usami / P	l/ Plan Adual	
Outpu	Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the	n the public and	c and private sectors is strangthened in the target districts.	
1.5	Ermulate training and many on O.8. A many inchitations	Plan Plan		
		A	Διπισ	
2-2	SupportRWSSD and the target districts to conduct training for	Sugino / Omi	Perm	
	Support BWSS D and the tamet distincts to conduct preparation of the			
2-3			) Plan	
	system, draw up ordinances for the pilot subprogram, and select the Taraet sub-counties and the taraet WSCs.)	Tanaka / Furukawa	wa Actual	
	implement the pilot	Sugino/Tanaka/ P	Pan	
5-7				
2-5	SupportRWSSD and the target districts to implement M&E of the pil or subprogram on O&M.	Mizuyori / Kan	Plan	
2-6	Support the target districts to formulate the annual work plans and imperment antivities (ear homehole diagnose and rehabilitation water	Sugino / Niceuri		
	quality analysis, etc.) based on the annual work plans.		Actual	
2-7	Supportthe larget districts to form HPMA.	Usami/Nigauri	Plan Adual	
2-8	Support the target districts to conduct training to HPMs and HPMAs.	Usami/Ogata/Saito	(ab) P(an)	
c		-	Addien Ad	
	water supply facilities.	Ogala / Nigauli / Ar		
2-10	Supportthe target districts to guide the management of HP MAs to enhance its function.	Sugino / usami A	Plan Adutal	
2-11	Support the target districts to implement M&E of HP MAs activities.	Mizuyori / Kan	Plan Adtal	
2-12	Improve the supply chain of spare parts in the target districts.	Usami /Omi	Plan	
2-13	Hold a periodic meeting with all TSUs to share progress, ideas, and	Sugno/Nigauri/P		
	Ils sues of on-doing activities		AGUE	

	ACTMITIES	Expert in charge	1/39 Actual 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 12 1 12 1 12 1 12 1 12 1 1	2019	Responsible Organization   Rough   Rough   Rough   Rough   Rough   Achievements   Courtemensure   Rough   Courtemensure   Rough   Ro
					200
o O	Output 3: Operational capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.	ittee (WSC) is	) is strength ened in the target districts.		
3-1	Support the target detricts to formulate the WSC training program	Sugino/Nigauri/ Omi	oui / Plan		
3-2	Supportthe larget districts to implement capacity development of	Sugno/Usami/Omi	/Onii Plan		
	WSCS Support the terral detricte to im doment monitoring and evaluation		Adus		
3-3		Mizuyori / Kan			
3-4		Mizuyori / Kan	an Adual		
3-5	Support the larget districts to implement awareness campaign to water	Sugno/Usami/Omii	I/Onii Action		
3-6		Mizuyori / Kan			
3-7	Support the larget districts to take corrective actions based on the results of M&E	Mizuyori / Kan			
no	Output 4: Capacity to supervise developmen tofrural water supply facilities is sfreng then ed	pply facilities	ies is streng th en ed .		
			re d		
<del>1</del> -4	siting, custom ize of hand pump facility resistant to poor water quality, supervision of construction and installation of hand pumps, etc.) to	Sugino / Usami			
4-2	Implement the training program to RWSSD and DWDs.	Sugino /Tomidokoro Plan / Nigauri Actua	bkoo Plan Adtal		
4-3	SupportRWSS D and the target districts to implement supervision of bosehole drilling, construction, and rehabilisation.	Usami/Nigauri			
4-4		Mizuyori / Kan	Plan Actual		
no	Output 5: H&S in the pilot communities is improved.				
5-1	Select the communities for H&S promotion	Hishida / Mizuyori	Jyori Artesi		
5-2	Support the target districts to formulate the annual work plans on the awareness campain for H&S in the selected communities.	Hishida / Mizuyori			
5-3		Hishida / Mizuyori			
5-4		Hishida / Mizuyori			
5-5		Mizuyori / Kan	Plan Actual		
no	Output 6: Good practices and lesson skearnt in the Project are shared wideky with stakeholders (all relevant Ugandan	sharedwide	dely with stakeh olders (all rdevan t Ug andan institutions, other donors, NGO etc.)		
6-1	Sum mai as good practices and lessons leamt from the activities related to Outputs 2-5	Sugiro / Usami	ami Actai		
6-2		Sugino / Usami	ami Plan Adtal		
6-3	Organize learning platforms to disseminate good practices and lessons leamed obtained at the activity 6-1	Sugiro / Usami	ami Plan Adual		
6-4		Sugiro / Usami	ami Plan   Plan   Adtual   Adt		

	OLIH/NTOV	Ы	Plan/	2015								2017					77	2018				2019		Responsible	Responsible Organization	sales	Saue&
		Experim grange   Actual   10   11   12   1   2   3	ctual 10	11 12	1 2 3	4 5	2 9	8 9 1	10 11 12	2 1 2	3 4	5 6 7	7 8 9	9	11 12 1	2 3 4	4 5 6	7 8	9 10 1	11 12 1	1 2 3	4 5	6 7		Japan   COU   **	levern ents coun	smeasure s
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Re	ReportsDocuments		\																								
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		Αα	Actual																								
Pu.	PublicRelations																										
		Plan	a																								
		Αα	Actual																								

## Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: The Project for Operation & Main tenance for Rural Water Supply and Improved Hygiene and Sanitation

Implementing Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Environment (MWE)

February, 2017

Ver. 3

Target Groups: MWE, RWSSD, District officers in charge of rural water supply and sanitation in the target districts

Period of Project: 4 years from the date when the first JICA Expert is disp atched

Project Sites. Kampala (RWSSD) and 4 Districts (Kiboga, Mubende, Butambala and Mp gi district)

Remarks				The activities for this output have been launched after the approval by the 4th JCC meeting on Feb. 15, 2017.
Achievement			Project approach for capacity development on O&M of rural water facilities including rural piped supply schemes and improvement of H&S condition is formulated.	Training program on O&M of rural water supply is formulated.
Important Assumption		■ Policies on rural water supply are not significantly changed ■ Financial resources which are currently allocated to the target districts are not significantly decreased in Central region	Financial resources currently allocated to the target districts are not significantly decreased	
Means of Verification	Sector Performance Report	1. Sector Performance Report 2. Interview Survey 3. Interview Survey 4. Interview Survey 5. Interview Survey	1 Project documents	2-1 Project documents 2-2 Project documents 2-3 Annual Workplan 2-4 Project documents 2-5 Project documents 2-6 Project documents 2-7 MO U
Objectively Verifiable Indicators	Eunctionality of rural water supply facilities in the Central Region is improved     Households access to larrines and hand washing facilities in the Central Region is in creased.	1. Functionality of rural water supply facilities in the target districts is increased from 73% to 90% 2. Rate of WSC conducting maintenance of rural water supply facility with collected water fees in the target districts is increased from 51% to 60% 3. The annual implementation rate to major repairs requested from WSCs in the target districts is increased from 34% to 40% 4. Hou sehold access to latrines in the target districts is increased from 76% to 77% 5. Hou sehold access to hard waching facilities in the target districts is increased from 76% to 77% 3. Hou sehold access to hand waching facilities in the target districts is increased from 28% to 32%	1 Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document	2-1 Training program on O&M of rural water supply is formulated 2-2 More than 20 staff's from RWSSD and the target districts incharge of water supply and sanitation receive the ToT. 2-3 Collection rate of water fees reaches more than 70% in the selected user communities within the pilot subprogram area. 2-4 O&M activities are implemented based on
Narrative Summa ry	Overal Goal  Operation & main tenance (O & M) policy and system of rural water supp by facilities improved by the Central Government are adapted to wide area in U ganda	Project Purpose O&M system of rural water supply facilities and hygiene and sanitation (H&S) in the target districts, and system of the Central Government relating to O&M are improved	Outputs  1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated	2. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts

Remarks	The activities for this output except the piped water supply facilities have been launched after the approval by the	Feb. 15, 2017. The activities for this output have been bumched after the approval by the 4th JC meeting on Feb. 15, 2017.	The activities for this output have been launched after the approval by the 4th JC meeting on Feb. 15, 2017.	The activities for this output have been launched after the approval by the 4th JCC meeting on Feb. 15, 2017.
Achievement				
Important Assumption				
Means of Verification	3-1 Pro ject documents 3-2 Pro ject documents	4-1 Project documents	5-1 Project documents 5-2 Project documents 5-3 Project documents 5-4 Interview survey 5-5 Interview survey	6-1 Project documents 6-2 Project documents
Objectively Verifiable Indicators	the annual workplans 2-5 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county 2-6 An average of 20 damag ed hand pumps are repaired by each trained HPMs per year 2-7 Memorandum of Understanding (MoU) between the HPMA and the district local government is signed and renewed in the target districts. 3-1 More than 85% of WSCs which are trained in the Project are performing their roles 3-2 O&M of piped water supply facilities is improved where activities are implemented.	4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training	5-1 At least 6 staffs from sanitation unit and TSU, and at least 3 staffs from each target districts receive the ToT on awareness campaign for H&S in the selected communities.  5-2 More than 75% of extension work ars (CDO and HA) in the target districts are trained on awareness campaign for H&S in the selected communities.  5-3 More than 75% of the trained extension workers (CDO and HA) in the target districts implement awareness camp aign for H&S in the selected communities.  5-4 Household access to latrines in the selected communities is increased from 76 % to 77 %  5-5 Household access to hand washing facilities in the selected communities is increased from 78 % to 32 %.	6-1 Documents of good practices and lessons learned are distributed to stakeholders 6-2 Learning platforms (e.g. workshops) to disseminate good prætices and lessons learned are organized
Narrativ e Summa 13	3. Operational and management capacity of Water and San itation Committee (WSC) is streng thened in the target districts	4. Capacity to supervise development of rural water supply facilities is strengthened	5. H&S in the selected communities is improved.	6. Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.

Activities	Inputs	ıts	Important Assumption
[Activities for Out put 1]  1-1 Set up a Working Gro up (WG) to discuss the framework of O&M system of rural water sup ply facilities and improvement of sanitation condition 1-2 Review existing po licy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders 1-3 Conduct baseline surveys in the target districts 1-4 Share findings of good practices and lessons karmt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges 1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2-1-4 1-6 Formulate PDM(ver1) and PO(ver1)  [Activities for Out put 2] 2-1 Formulate training programs on O&M planning to relevant institutions 2-2 Support RWSSD and the target districts to conduct training for capacity development in O&M support system for rural water supply facilities. 2-3 Support RWSSD and the target districts to conduct preparation of the pilot subprogram on O&M (formulate a framework of new O&M system, draw up ordinances for the pilot subprogram, and select the target sub-counties and the target WSCs.) 2-4 Support RWSSD and the target districts to implement the pilot subprogram on O&M (estab lish water service provider an drain HPMs and caretakers.) 2-5 Sup port RWSSD and the target districts to implement the pilot subprogram on O&M (estab lish water service provider an drain HPMs and caretakers.) 2-5 Sup port RWSSD and the target districts to implement the pilot subprogram	The Japanese side  1. Personnel: - Chief Advisor/Rural Water Supply/Organ ization al Management - Vice Chief Advisor / O & M of Rural Water Supply Facilities 1 - Rehabilitation of Rural Water Supply facilities I/Construction supervision 1 - Rehabilitation of Rural Water Supply facilities 2/Construction supervision 2 - Hydrogeology 1 - Hydrogeology 2 - Hygiene and Sanitation 1 - Hygiene and Sanitation 1 - Hygiene and Sanitation 2 - Morganizatinal Analysis 2 / Monigoring and Evaluation 1 - Society 1 / Organizational Analysis 2 / Monitoring and Evaluation 2 - A udit System - Labor management 1 - O&M of Rural Water Supply Facilities 2 / Labor Management 2 / Society 2 - Piped Water Supply / Collaboration	The Ugan dan side  1. Allocation of counterparts and administrative personnel  - Project Director  - Counterp arts  2. Equipment  Two vehicles, equipment and materials for administration of the Project  3. Allocation of office space and facilities  - Office space for JI CA exp erts in Kampala and the target districts  - Other necessary facilities, equipment and materials for administration of the Project  4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)  5. Running expenses necessary for the implementation of the Project	Pre-Conditions  The budget for the Project to be borne by the Ug and an side is sæured
sub program on O&M.  2-6 Support the targ et districts to formulate the annual work plans and implement activities (e.g. b orehole diagnosis and rehabilitation, water quality analysis, ct.) based on the annual work plans.  2-7 Support the targ et districts to form HPMA.  2-8 Support the targ et districts to conduct training to HPMs and HPMAs.  2-9 Sup port the trained HPMs to conduct diagnosis and repair on rural water sup ply facilities.  2-10 Sup port the target districts to guide the management of HPMAs to enhance its function.  2-11 Sup port the target districts to implement M&E of HPMAs activities.  2-12 Improve the supply chain of spare parts in the target districts.  2-13 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities  3-15 Upport the target districts to formulate the WSC training program 3-2 Support the target districts to implement capacity development of WSCs of WSCs activities  3-4 Support the target districts to implement regeneration of WSCs in the pilot subprogram.  3-5 Support the target districts to implement awareness campaign to water users	Office equipment, two vehicles, tool kits, and others  3. Training in Japan and/or a fhird country  4. Project activities fee		«Issues and Countermeæures»  MWE and the Project Team have made an agreement on the budgetary step so f Ugandan side by the M in utes of Meeting dated Dec. 6, 2016 witnessed by JICA.

in the pilot su bprogram.  3-6 Su pport WSC s \( \text{implement} \) M&E of the pilot subprogram.  3-7 Su pport WSC s \( \text{implement} \) in take corrective actions based on the results of M&E  \[ \text{M} \text{ M} \)  4-1 Formulate train ing prog ram (e.g. steps and tech niq ues for horehole siting, customize of hand pump facility resistant to poor water quality, supervision of construction and installation of hand pumps, etc.) to RWSSD and DWOs.  4-2 Implement the training program to RWSSD and DWOs.  4-3 Su pport RWSSD and the target d is tricts to implement supervision of borehole drilling, construction, and rehabilitation.  4-4 Implement M&E of supervision activities for borehole drilling, construction,	
LA divities for Out put 5] 5-1 Select the communities for H&S promotion 5-2 Su pport the target districts to formulate the annual work plans on the awareness campaign for H&S in the selected communities. 5-3 Conduct ToT on awareness campaign for H&S at the Central Government and in the target districts. 5-4 Su pport the target districts to implement awareness campaign for H&S in the selected communities. 5-5 Mo nitor implementation of awareness campaign for H&S and take corrective measures in the selected communities.	
6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2~5 6-2 Review and propose revision of the existing hand books and training manuals regarding O&M based on the activities of Outputs 2~5 6-3 Organize learning platforms to disseminate good practices and lessons learned obtained at the activity 6-1 6-4 Share good practices and lessons karned from the Project with stakeholders in the water and sanitation sector	

\*Note: Target rural water supply facilities in the Project are hand pumps (U2, U3 and U3M) and piped water supply in Rural Growth Center.

The pilot communities for Output 5 will be selected from those which will be targeted by Output 3 activities.

The Central Region consists of following districts: Burkwe, Burk omans imbi, Butambala, Buvuma, Gomba, Kalangala, Kalunga, Kiboga, Kyankwanzi, Luwæro, Lwengo, Lyankonde, Masaka, Mityana, Mpigi, Mubende, Mukono, Nakæeke, Nakasongola, Rakai, Sembabule, Wakiso

### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

Version of the Sheet: Ver. 4 (September 2017)

Name: Joseph Oriono Eyatu

Title: Project Director

Name: Yasuhide Nigauri

Title: Chief Advisor

Submission Date: 18th October 2017

### I. Summary

### 1 Progress

### 1-1 Progress of Inputs

Inputs	Plan as of September 2017	Actual as of September 2017	
Experts	Input from Japan	Input from Japan	
	<u>Total: 76.74MM/116.74MM (65.74%)</u>	Total: 70.08MM/118.83MM (58.98%)	
		Progress: -6.76% from the plan	
	14 Short Term Experts as follows:	13 Short Term Experts as follows:	
	1. Chief Advisor/Rural Water Supply/	1. Chief Advisor/Rural Water Supply/	
	Organizational Management (8.96MM)	Organizational Management (9.37MM	
	2. Vice Chief Advisor/Operation and	2. Vice Chief Advisor/Operation and	
	Maintenance of Rural Water Supply	Maintenance of Rural Water Supply	
	Facilities 1 (6.67MM)	Facilities 1 (5.17MM)	
	3. Rehabilitation of Rural Water Supply	3. Rehabilitation of Rural Water Supply	
	facilities 1/Construction supervision 1	facilities 1/Construction supervision 1	
	(0.87MM)	(0.87MM)	
	4. Rehabilitation of Rural Water Supply		
	facilities 2/Construction supervision 2		
	(2.00MM)		
	5. Hydrogeology 1 (5.00MM)	4. Hydrogeology 1 (3.50MM)	
	6. Hydrogeology 2 (5.33MM)	5. Hydrogeology 2 (5.83MM)	
	7. Hygiene and Sanitation 1 (6.54MM)	6. Hygiene and Sanitation 1 (7.14MM)	
	8. Hygiene and Sanitation 2/Organizational	7. Hygiene and Sanitation 2/Organizationa	
	Analysis 1/Monitoring and Evaluation	Analysis 1/Monitoring and Evaluation	
	1 (4.00MM)	1 (2.00MM)	
	9. Financial Management (2.00M/M)	8. Financial Management (1.53M/M)	
	10. Labor Management 1 (1.50M/M)	9. Labor Management 1 (1.50M/M)	
	11. Society 1/ Organizational Analysis 2/	10. Society 1/ Organizational Analysis 2/	
	Monitoring & Evaluation 2 (4.87MM)	Monitoring & Evaluation 2 (4.87MM)	

	12. Operation and Maintenance of Rural	11. Operation and Maintenance of Rural
	Water Supply Facilities 2 / Labor	Water Supply Facilities 2 / Labor
	Management / Society 2 (4.00)	Management / Society 2 (3.30)
	13. Society 2 / Project coordinator (1.00 -	12. Society 2 / Project coordinator (1.00 -
	1st phase)	1 <sup>st</sup> phase)
	14. Society 2 / Public Relations / Financial	13. Society 2 / Public Relations / Financial
	Management / Project Coordinator	Management / Project Coordinator
	(1.00 – 1 <sup>st</sup> phase)	(1.00 – 1 <sup>st</sup> phase)
	1 Long Term Expert for Piped Water	1 Long Term Expert for Piped Water
	Supply/ Collaboration (23.00MM)	Supply/ Collaboration (23.00MM)
	Input from Uganda	Input from Uganda
	1. Mutiibwa Robert (Principal Water	1. Mutiibwa Robert (Principal Water
	Officer), Project Manager	Officer), Project Manager
	2. Ssenfuma Samuel (Hydrogeologist),	2. Bisoborwa Paul (Social Scientist)
	Liaison Officer	Liaison Officer – Point water sources
	3. Enangu Moses (Senior Assistant),	3. Martha Naigaga (EHO)
	Liaison Officer	4. Marcia Tusiime (EHO)
	4. Martha Naigaga (EHO)	5. Nakasagga Jackline (Social
	Liaison Officer	Scientist-Trainee)
	5. Marcia Tusiime (EHO)	6. Kajumba Grace (Graduate Trainee)
	Liaison Officer	7. Eng. Bateganya David (Senior Engineer)
	6. Eng. Bateganya David (Senior Engineer)	Liaison Officer
	Liaison Officer	8. Katumba Willy (Borehole maintenance
	7. Adima Israel (Engineer)	superintendent)
	Liaison Officer	9. Kwagalakwe Asenath (Graduate
	8. Mugeiga Kato (Social Scientist)	Trainee)
	Liaison Officer – Piped water schemes	10. Mugeiga Kato (Social Scientist)
	9. Bisoborwa Paul (Social Scientist)	Liaison Officer – Piped water schemes
	Liaison Officer – Point water sources	11. Λlamai Marion (Graduate Trainee ~Jan.
	10. Nakasagga Jackline (Social	2017)
	Scientist-Trainee)	
	Liaison Officer	
Equipment	1 <sup>st</sup> phase	1st phase
	1. Water Quality Analysis Kit:	1. Procured
	- Spectrophotometer: 1 set	
	- Pack test (Iron) (50 pc.): 3 sets	
	- E-coli test paper (100 pc.): 3 sets	
	- Bacteria (100 pc.): 3 sets	
	2. Operation and Maintenance Tools for	2. Procured
	Rural Water Supply:	
	- Tool box for U2 hand pump: 32 sets	
	- Chain block and tripod: 4 sets	

	3. GPS portable: 5 sets 3. Pro	cured	
	4. Copy machines: 2 sets 4. Pro	cured	
	5. Projector: 1 set 5. Pro	cured	
	6. Vehicles: 1 station wagon and 1 6. Del	livered to GoU by JICA	
	pickup truck		
	2 <sup>nd</sup> phase 2nd p	<u>hase</u>	
	1. Water Quality Analysis material 1. Pro	cured	
	- Pack test (Nitrate) (150 pc.): 4 sets		
	- Pack test (Nitrate) (50 pc.): 2 sets		
	- E-coli test paper (100 pc.): 7 sets		
	2. Hand pump (U2): 100 sets 2. Sel-	redule for later	
Training	Training in Japan and/or a third country Traini	ng in Japan on March 2018 is under	
	planni		
Ugandan Side	1. Allocation of counterparts and 1. A	llocated including C/P of H&S	
Operational	administrative personnel (Project		
Expenses	Director, Project Manager and		
	Counterparts)		
	2. Supply of replacement of machinery, 2. R	eplacement of vehicle tires and	
	equipment, instruments, vehicles,	ehicle routine service will be	
	tools, spare parts and any other	isbursed from project account.	
	materials necessary for the		
	implementation of the Project other		
	than the equipment provided by JICA.		
		office space and facilities in Kampala	
	-	ipartment lease) and in Mubende	
		WO were allocated.	
	other necessary facilities, equipment		
	and materials for administration of the		
	Project)		
		he costs will be disbursed from the	
		roject account.	
	counterparts)	,	
		he expenses will be disbursed from	
		ne project account.	
	i i i i i i i i i i i i i i i i i i i	1 3	

### 1-2 Progress of Activities

Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated

- Baseline survey was implemented.
- Capacity development strategy was established based on the activities.
- Progress report (No. 1) was submitted (June 2016).
- Activities of Output 1 were completed in the 1<sup>st</sup> phase.

- Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende district
    - Formulation of training programs (Activity 2-1) and formulation of framework and well diagnosis work for selecting the target WSCs (Activity 2-3) are ongoing.
    - Training using the above materials (Activity 2-2, 2-4, and 2-5) has not yet started due to the delayed disbursement of funds by the government of Uganda.
  - (2) Activities for control districts
  - Formulate the training program to strengthen CBMS (Activity 2-1)
  - ToT training for district staff about WSC training and sensitization of water users (Activity 2-2)
  - Well diagnosis work for selecting wells for rehabilitation (Activity 2-6)
  - Confirmation of reorganization of IIPMA in Kiboga district which was not functioning during the baseline survey (Activity 2-7)
  - MoU between HPMA and district local governments were signed regarding the management of the repair toolboxes which were procured in the 1st phase of the project (Activity 2-10).
  - MoU between HPMΛ and the local governments regarding report system for handpump repair (Activity 2-11)
- Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende district
    - Formulation of training materials and training program is ongoing (Activity 3-1)
    - Training using above materials (Activities 3-4, 3-5, and 3-6) have not started.
  - (2) Activities for control districts
    - WSC training program was formulated (Activity 3-1)
    - Training for relevant district staff and sub-county extension workers in target districts were implemented (Activity 3-2).
- Output 4: Capacity to supervise development of rural water supply facilities is strengthened
  - Capacity gaps were identified during the institutional analysis
  - The team has started planning of the 1<sup>st</sup> training in Japan.
- Output 5: H&S in the selected communities is improved.
  - Hygiene and sanitation training in control districts were conducted (Activity 5-3)
  - The team has adopted ODF (Open Defecation Free) as indicator for improved hygiene and sanitation in the selected communities.

Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.

- Activities for output 6 will be implemented in the final year of the project.

The detail of each activity is shown in the annex 1.

### 1-3 Achievement of Output

Output/Indicators	Major Results	Status*
Output 1: Strategy for capacity development of II&S condition	pment in O&M of rural water supply fa is formulated.	cilities and
1) Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document.	<ul> <li>Necessary documents were prepared as below;</li> <li>a) Progress Report (No.1) for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (June 2016)</li> <li>b) PDM (ver.2) (approved at 3<sup>rd</sup> JCC on 25 August 2016)</li> <li>c) Technical Note on the Operation and Maintenance System of Rural Water Supply for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (2 September 2016)</li> <li>d) Minutes of Meeting on the Discussion of the Second Stage Activities for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (6 December 2016)</li> <li>e) Work Plan (2<sup>nd</sup> Edition) for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)</li> </ul>	OT
Output 2: O&M support system of rural strengthened in the target district	water supply facilities in the public and prival	e sectors is
Training program on O&M of rural water supply is formulated.	- Training program on O&M of rural water supply has been formulated as below;	OT

		Trainers on O&M of Rural Water Supply (August 2016) b) Work Plan (2 <sup>nd</sup> Edition) for the	
		Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	
		c) Formulation of materials for ToT for relevant district staff and sub-county staff in control districts. (April 2017)	
2)	More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation receivre the ToT.	<ul> <li>The ToT for sensitization of water users and WSC were implemented to District staff in control districts;</li> <li>1. Mpigi – 3 district staff (19-20 April 2017)</li> <li>2. Kiboga – 5 district staff (24-25 April 2017)</li> <li>3. Butambala – 7 district staff (3-4 May 2017)</li> </ul>	OT
		(ToT in Mubende district is delayed)	DL
3)	The collection rate of water fees reaches more than 70% in the selected user communities within the pilot subprogram area.	(This output is not achieved due to delayed formation of service center.)	DL
4)	O&M activities are implemented based on the annual workplans.	<ul> <li>Borehole diagnosis for selection of target facilities has been completed for 836 sites in 15 sub counties. Site selection for 8 sub-counties in Lot 1 has started. (September 2017)</li> <li>The support for site selection for borehole rehabilitation in control districts has been implemented. (so far 15</li> </ul>	ОТ
		facilities in each of the 3 districts) (June 2017)	
5)	At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.	(This activity is not yet implemented.  Lecture training is under planning)	SFL
6)	An average of 20 damaged hand pumps are repaired by each trained IIPMs per year.	(This output is not achieved as the training for ITPM is not yet implemented.)	SFL
7)	Memorandum of Understanding (MoU) between the HPMA and the district local governments is signed	(MoUs below are part of the comprehensive MoU for Output 2.)	SFL

and renewed in the target districts.	- In control districts, MoUs between HPMAs and district local governments were signed regarding the management of the repair toolboxes provided by the project (April – May 2017).	ОТ
	- In control districts, MoUs between HPMAs and the local governments regarding report system of handpump repair were signed (May 2017).	OT
Output 3: Operational and management strengthened in the target distr	capacity of Water and Sanitation Committericts.	e (WSC) is
More than 85% of WSCs which are trained in the Project are performing their roles.	- The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts.  1. Mpigi for 19 staff (19-20 April 2017)  2. Kiboga for 19 staff (24-25 April 2017)  3. Butambala 15 staff (3-4 May 2017)	OT
	The extension workers that have been trained will be supported to train the WSC in their communities	
	(ToT training in Mubende district was delayed)	DL
2) O&M of piped water supply facilities is improved where activities are implemented.	- The following 7 piped water supply facilities were improved through project activity (September 2017);	
	<ul> <li>Bukomero T/C (Kiboga District)</li> <li>Kyanamugera RGC (Mubende District)</li> <li>Unyama, Koch-Goma, Awere, Corner-Kilak, Kitgum-Matidi (Acholi Sub Region)</li> </ul>	ОТ
	Details of the areas improved are attached as annex 2.	
Output 4: Capacity to supervise developm	ent of rural water supply facilities is strengthen	ed.
1) More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.	Capacity gaps have been identified by conducting institutional analysis	SFL
Output 5: II&S in the selected communiti	es is improved.	
1) At least 6 staff from sanitation unit and TSU, and at least 3 staff from each target district complete the	- The ToTs for sensitization of H&S were implemented to district staff in control districts:	ОТ

ToT on awareness campaign for H&S in the selected communities.	<ol> <li>Mpigi for 3 district staff (19-20 April 2017)</li> <li>Kiboga for 5 district staff (24-25 April 2017)</li> <li>Butambala 7 district staff (3-4 May 2017)</li> <li>(ToT training in Mubende district was delayed. ToT focused on ODF is being</li> </ol>	DL
2) More than 75% of extension	planned to be implemented in the 4 target districts.)  - The ToTs for sensitization of H&S were	OT
workers (CDO and HA) in the target districts are trained on awareness campaign for II&S in the selected communities.	<ul> <li>implemented to sub-county staff in control districts.</li> <li>1. Mpigi 100 % of extension worker (12 out of 12) (19-20 April 2017)</li> <li>2. Kiboga 100 % of extension worker (12 out of 12) (24-25 April 2017)</li> <li>3. Butambala 100 % of extension worker (10 out of 10) (3-4 May 2017)</li> </ul>	
	(ToT training in Mubende district was delayed . ToT focused on ODF is being planned to be implemented in the 4 target districts.)	DL
3) More than 75% of the trained extension workers (CDO and HA) in the target districts implement awareness campaign for H&S in the selected communities.	- N/A	SFL
4) Household access to latrines in the selected communities is increased from 76 % to 77 %.	- Proposed to Delete  This is not an output indicator obtained from activities such as formulation of annual work plan, implementation and monitoring of awareness campaign for Hygiene and Sanitation.	-
5) Household access to hand washing facilities in the selected communities is increased from 28 % to 32 %.	- Proposed to Delete  This is not an output indicator obtained from activities such as formulation of annual work plan, implementation and monitoring of awareness campaign for Hygiene and Sanitation.	-
Output 6: Good practices and lessons lear water and sanitation sector.	rnt in the Project are shared widely with stakeho	olders in the

lessons learned are distributed to stakeholders.		
2) Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized.	SFL	

### 1-4 Achievement of the Project Purpose

- N/A

### 1-5 Changes of Risks and Actions for Mitigation

- Project activities were suspended for 3 months (June-September 2017) because of delays in disbursement of funds by the GoU. After confirmation of the status of the process for securing the budget and opening bank account for the project, it became clear that MWE has already opened the bank account and was finalizing the disbursement of the funds to the project account. It is expected that the funds will be available to use by the end of October 2017.

### 1-6 Progress of Actions undertaken by JICA

 A meeting between JICA and MWE was held on 14<sup>th</sup> August 2017 with the meeting minutes signed on 25<sup>th</sup> August 2017. The conditions for resumption of project activities were mentioned in the minutes of meeting.

### 1-7 Progress of Actions undertaken by Gov. of Uganda

- WSSB (JMC) was established as the interim organization to supervise the activities of service center in Mubende district (25 August 2017)
- Bank account for the project was opened (8th September 2017).
- Counterpart staff for hygiene and sanitation was allocated to the project.
- The first allocation and disbursement of project funds to the project account was executed (18<sup>th</sup> October, 2017).

### 1-8 Progress of Environmental and Social Considerations (if applicable)

N/Λ

## 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

N/Λ

# 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

- The process of preparation of statutory instrument is ongoing. MWE signed a contract with a law firm

to undertake the preparation of the statutory instrument on 22<sup>nd</sup> September 2017 and the draft statutory instrument is expected to be ready within four (4) months. However, the pilot subprogram will initially be implemented under the WSSB (JMC) that was established by MWE on 25th August 2017. It is anticipated that upon gazetting of the statutory instrument, the service center will transition into a semi-autonomous agency and its management will be dictated by the provisions in the statutory instrument.

### 2 Delay of Work Schedule and/or Problems (if any)

### 2-1 Detail

- Field training for the pilot subprogram has not started yet. The total time lost due to delays is about five (5) months. Main activities to be undertaken under the training program are as follows;

(Activity 2-2) ToT for MWE and district staff in Mubende

(Activity 2-3) Kick-off meeting

(Activity 2-4) ToT to HPM for teaching caretaker, OJT, employment of service center staff.

(Activity 3-2) ToT of sensitization to sub-county staff for teaching water user, WSC.

(Activity 3-4) OJT of sensitization to sub-county staff for teaching WSC

(Activity 3-5) OJT of sensitization to sub-county staff for teaching water user

(Activity 3-6) OJT to WSC for monitoring service center

### 2-2 Cause

The implementation of DDMS in all sub-counties of Mubende District had been requested at the 3rd JCC Meeting on 25<sup>th</sup> August, 2017. It, however, had been judged that more participation of District's and sub-county's staff was significantly required. It was, therefore, agreed between the consultant and MWE on 6<sup>th</sup> December, 2016 that the required budget for those activities should be secured by MWE. Basing on the above agreement, the work plan (2<sup>nd</sup> Edition) was formulated in January, 2017. In the work plan, the delayed activities were scheduled from June 2017 (Annex 3). However, the budget was not disbursed on time. As a result, the activities of the project were suspended for approximately 3 months (June - September 2017). Finally, the budget was disbursed to the project account on 18<sup>th</sup> October, 2017. The training will start in November 2017, 5 months behind schedule.

### 2-3 Action to be taken

- The following are the actions to be taken and the responsible persons.
  - 1) Review of current project status and plan (project team) by mid-October 2017.
  - 2) Revision of work plan/schedule to cater for the 5 months lost (project team) by early December 2017.
  - 3) Report and discussion of the outcome with relevant organizations.

### 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

- Approval of revised work plans (JICA).
- Disburse project funds to project account by the end of October 2017 (Gov. of Uganda)

### 3 Modification of the Project Implementation Plan

### 3-1 PO

- PO (ver. 4) was prepared. (See the attached Monitoring Sheet Form 3-3.)
- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - With regard to "Improvement of H&S" of project purpose, it was agreed that more attention should be focused on usage rate of sanitation facilities than the access rate to the sanitation facilities through the discussion with counterpart (C/P). As a result, it was also agreed that the ODF would be used as the indicator of project purpose. In response to this, modification of indicator of project purpose (4 and 5) and deletion of indicator of output 5-4, 5-5 are being planned. The project team is now formulating the ODF indicators that will be measured. After formulation of the measurable indicators, the team will propose the draft R/D of amendment PDM for the approval of JICA.
- 4 Preparation of Gov. of Uganda toward after completion of the Project
  - N/A

II. Project Monitoring Sheet I & II as Attached

# Project Monitoring Sheetl (Revision of Project Design Matrix)

Im plementing. Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Divisionment (MWE) Project Title: The Project for Operation & Maintenance for Rural Water Supply and Improved Llygiene and Sanitation Target Groups: MWE, RWSSD, District officers in charge of rural water supply and sanitation in the target districts

October, 2017

Ver. 4

Period of Project: 4 years from the date when the first MCA Expert is disp arched

Project Sites. Kampala (RWSSD) and 4 Districts (Kiboga, Mub and c, Butambala and Mp igi district)

1. Functionality of rural water supply facilities in the Central Region is improved 2. Households access to latrines and band washing facilities in the Central Region is in occased
1. Functionally of rural water supply facilities in the target districts is increased from **% to **%.  2. Interview Surv ey are carred from **% to protein Surv ey are carred from VASCs conducting maintenance of rural and the target districts is increased from 5. Interview Surv ey are carred from VASCs in the target districts is increased from 5. Interview Surv ey signification rate to major repairs requested from VASCs in the target districts is increased from **% to **%.  3. The annual implementation rate to major repairs requested from **% to 40%.  4. Household access to learning taxilities in the target districts is increased from **% to **%.  5. Household access to harm washing facilities in the target districts is increased from **% to **%.  6. Household access to harm washing facilities in the target districts is increased from ***% to ***%.
Project approach for capacity development on Project documents allocated to the target ORVM of rural water facilities and improvement of H&S condition is formulated as document
2-1 Training program on O&M of rural water 2-1 Project documents supply is formulated 2-2 More than 20 staffs from RWSSD and the 2-3 Annual Workplan target districts incharge of water supply and 2-3 Annual Workplan 2-3 Collection receive the ToT 2-3 Collection rate of water fees reaches more than 70% in the selected user communities within the pilot subprogram area.  2-4 O&M activities are implemented based on

Narrative Summa ty	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
	the annual workplans 2-5 At least two Hand Pump Medianics (HPMs) are trained on site in each sub-county 2-6 An average of 20 damaged hand pumps are repaired by each trained HPMs per year 2-7 Memorandum of Understanding (MoU) between the HPMM, and the district local government is signed and renewed in the tagget districts.			was implemented.	
3. Operational and management expacity of Water and Sanitation Committee (WSC) is strengthened in the target districts	3-1 More than 85% of WSCs which are trained in the Project are performing their roles 3-2 O&M of piped water supply facilities is improved where activities are implemented.	3-1 Project documents 3-2 Project documents		3-1 Total 53 S/C staff'in control districts was trained. 3-2. 7 piped water supply facilities were improved their O&M	Sart oftraining in Mubende district is delayed.
4. Capacity to supervise development of rural water supply facilities is strengthened	4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training	4-1 Project documents			Training in Japan is planned on March, 2018.
5. H&S in the selected communities is improved.  6. Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and saminition sector.	5-1 At least 6 staffs from sanitation unit and TSU, and at least 3 staffs from each target districts receive the ToT on awareness campaign for H&S in the sclecked communities  5-2 More than 75% of extension work ors (CDO and ITA) in the target districts are trained on awareness campaign for H&S in the selected communities  5-3 More than 75% of the trained extension workers (CDO and HA) in the target districts implement awareness campaign for IL&S in the selected communities.  5-4 Household access to fatrines in the selected communities is increased from ***9% to ***9%  5-5 Household access to hand washing facilities in the selected communities is increased from ***9% to ***9%  6-1 Do cummus of good practices and lessons learned are distributed to stakeholders  6-2 Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized	5-1 Project documents 5-2 Project documents 5-3 Project documents 5-4 Project documents 5-5 Project documents 6-1 Project documents 6-2 Project documents		5-1. Jotal 15 districts in control districts received To T. 5-2. Total 100% (34/34) 8/C extension workers in control districts were trained.	ODF is planned Indicator No. 5-4 and 5-5 will be proposed to delete.

Activities	Inputs	nts	Important Assumption
[Activities for Out put 1]  1-1 Set up a Working Gro up (WG) to discuss the framework of O&M system of rural water sup ph facilities and improvement of sanitation condition  1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders	The Japanese side  1. Personnel: - Chief A dvisor/Rur al Water Supply/Organization al Management - Vice Chief Advisor / O & M of Rural Water Supply Facilities   - Rehabilitation of Rural Water Supply	The Ugandan side  1. Allocation of counterparts and administrative personnel  - Project Director  - Project Manager  - Countorparts	
<ul> <li>1-3 Conduct baseline surveys in the target districts.</li> <li>1-4 Share findings of good practices and lessons bearnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges.</li> <li>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2-1-4.</li> <li>1-6 Formulate PDM(ver. 2) and PO(ver. 2).</li> </ul>	facilities L'Construction and a series de la facilities L'Construction supervision 1 facilities 2 Construction supervision 2 - II ydrogeology 1 - Hydrogeology 2 - Hydrogeology 2 - Hygiene and Sanitation 1 - Hygiene and Sanitation 2 /	2. Equipment Two vehicles, equipment and materials for administration of the Project 3. Allocation of office space and facilities - Office space for JICA experts in Kampala and the parget districts	Pre-Conditions  The budget for the Project to be borne by the Ug and an side is secured
[Activities for Out put 2]  2-1 Formulate training programs on O&M planning to relevant institutions 2-2 Support RWSSD and the target districts to conduct training for capacity development in O&M support system for rural water supply facilities. 2-3 Support RWSSD and the target districts to conduct preparation of the pilot subprogram on O&M (formulate a framework of new O&M system, draw up ordinances for the pilot subprogram, and select the target sub-co-unities and the target WSCs.) 2-4 Support RWSSD and the target districts to implement the pilot subprogram	Organizational Analys is 2 / Monitoring an d Evaluation 1  - Society 1 / Organizational Analysis 2 / Monitoring and Evaluation 2  - A udit System - Labor management 1  - O & Mof Rural Wator Supply 1: acilities 2 / Labor Management 2 / Society 2  - Piped Water Supply / Collaboration	-Other necessary facilities, equipment and materials for administration of the Project  4. Counterpart-related costs (including salary, allowance and traveling oost for on unterparts)  5. Running expenses necessary for the implementation of the Project	
on O&M (establish water service provider and train ILPMs and caretakers.) 2-5 Support RWSSD and the target districts to implement M&E of the pilot	2. Equipment:		
sub program on O&M.  2-6 Support the tag et districts to formulate the annual work plans and implement activities (e.g. b orehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.	Office equipment, two vencies, tool kits, and others  3. Training in Japan and/ora third country		Series and Countermeasures> MWE and the Project Team have made an agreement on the hidder are stored from the project are stored.
2-7 Support the taget districts to form HPMA. 2-8 Support the taget districts to conduct training to LIPMs and LIPMAs. 2-9 Support the trained HPMs to conduct disenoise and creation rural water	4. Project activities fee		the M in uses of Meeting dated Dec. 6, 2016 witnessed by JICA.
suppy facilities. 2-10 Support the larget districts to guide the management of IIPMAs to enhance its fin orion			Bank account for the project was opened (8th September 2017).
2-11 Support the target districts to implement M&E of HPMAs adivities. 2-12 Improve the supply chain of spare parts in the targed districts. 2-13 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going adivities			Allocation and disbursement of project funds to the project account is executed on 18th October.
[Activities for Output 3] 3-1 Su pport the target districts to formulate the WSC training program 3-2 Su pport the target districts to implement capacity development of WSCs 3-3 Su pport the target districts to implement monitoring and evaluation (M&E) of WSCs activities 3-4 Support the target districts to implement regeneration of WSCs in the pilot subprogram.			
3-5 Su pport the target districts to implement awareness campaign to water users			

in the pilot subprogram.  3-6 Su pport WSCs to implement M&E of the pilot subprogram.  3-7 Su pport the target districts to take corrective actions based on the results of M&E	
[A ctivities for Output 4]]  4-1 Formulate training program (e.g. steps and techniques for borehole stining, customize of hand pump facility resistant to poor water quality, supervision of construction and installation of hand pumps, etc.) to RWSSD and DWOs.  4-2 Implement the training program to RWSSD and DWOs.  4-3 Support RWSSD and the target districts to implement supervision of horehole drilling, construction, and edabilitation.  4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.	
[A ctivities for Out put 5]] 5-1 Select the communities for H&S promotion 5-2 Su pport the target districts to formulate the annual work plans on the awareness campaign for II&S in the selected communities. 5-3 Conduct ToT on awareness campaign for H&S at the Central Government and in the target districts. 5-4 Su pport the target districts to implement awareness campaign for H&S in the selected communities. 5-5 Mo nitor implementation of awareness campaign for II&S and take corrective measures in the selected communities.	
[Activities for Out put 6] 6-1 Summarize good practices and less ons learnt from the activities related to Outputs 2-5 6-2 Review and propose revision of the existing hand books and training manuals regarding O&M based on the activities of Outputs 2-5 6-3 Organize learning platforms to disseminate go od practices and lessons learned obtained at the activity 6-1 6-4 Share good practices and lessons bearned from the Project with stakeholders in the water and sanitation sector	

\*Note: Target rural water supply facilities in the Project are hand pumps (U2, U3 and U3M) and piped water supply in Rural Growth Center.

The pilot communities for Output 5 will be soliceted from those which will be targeted by Output 3 activities.

The pilot communities for Output 5 will be soliceted from those which will be targeted by Output 3 activities.

The Central Region consists of following districts: Burkwe, Burk orners inchi, Butambala, Buvuma, Gomba, Kalangala, Kayunga, Kiboga, Kyankwanzi, Luweero, Lwengo, Lyanio nde, Masaka, Mityana, Nipigi, Mubande, Mukono, Nakaseke, Nakasongola, Rakai, Sembabule, Wakiso

	Project Monitoring Sheet II (Revision of Plan of Operation)	Ver 4
Project Title: The Project for O peration & Mainte nance for Rural Water Sup ply and Improved Hy    Rural Water Sup ply and Improved Hy	giene and San itation 2017 2018	Cated: Octob
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Expert		
Chief Advisor / Rural Water Supply / Organizational Management	n: Vr. Shinske Sujiro Plan	
Chief Advisor / Rural Water Supply / Organizational Management:	Vr. Yasıhide Nigauri	
Vice Chief Advisor / Operation and Maintenance of Rural Mater Supply Faralities	Mr. Hidekani Usami	
Rehabiliation of Rural Water Supply facilities 1/Construction	Mr Talsuo Pen	
Supervision   Rehabition of Rical Mater Supply facilities 2/Conscruction properties on 2	.2	
Hydegeology 1	M.N. asayıki Ogela Plen An. M. asayıki Ogela Ar. a	
Hydrogeology 2	W. Yashide Ngaun Plan	
Hydrogoology 2	M. Kq. Takabushi Plan	
Hygiene and Sanitation 1	Vs. Yurchishida Pilan	
Hygione and Sanitation 27 Organizational Analysis 17 Monitoring and Eviduation 1	Ms. Tomoka Mizuyari	
Financial Wanagement	LM*V_SINCE PER FULUENMA ACUL	
Labor Management *	95	
Scotty 1/ Organizational Analysis 2 / Monitoring & Evaluation 2	Ms Eina Kan	
O&M of Sural Water Supply Facilities 27 Lebor Management 27 ऽल्लाबर 2	Ms.KeiOri	
Scriety ? Public Relations / Financial Management   Project Opordina or	Mr. Co Ebsu Actual	
Scalety 2 / Project Coordinator	Ns. Yako Ono Pler	
Piped Water Supply / Collaboration	Mi. Dasura Pler Sakanob Accud	
Equi pment		
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Training in Japan o rthird country		
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Output 1. Strakegy for capacity development in O&M of rural water supply facilities and improvement of	Andrei andhin	adities and improver	ment of H&S condition is formu∥ated	is formu <b>l</b> ated.				
Set up a Working Group (WG, to discuss the framework of 0.8 M 14 system of real water supply facilities and improvement of santation	Sugino	Plan Acua						
Entition: Review existing policy framework and laws regarding O&Mof unal Review existing policy framework and laws regarding O&Mof unal Review existing policy framework and laws of several policy and sentitly response billions and challenges of stakeholders.	Usami/Hshida / Mizuyori/Sakamolo	Plan						
1-3 Conduct baseline surveys in the target districts	Sugino / Takahashi /Sakemuto	Plan Acud						
Share findings organic practices and lessons learnt of rural water	Sugino / Usami /	Pan						
	Sakamoto	Actual						
1-6 institutions based on the results of activities 1-2~1-4	Sugino / Usami / Sakamoto	Plan Acual						
1-6 Fcmulae PDM(ver2) and PO(ver2)	Sugino/Usami/ Sakamoto	Plan						
Output 2: O&M support system of rural water supply facilities in the public and private sectors is streng	sinthe publica	and private sectors is	strengthenedinthet	thened in the target districts,				
24 Formula of training programs on O&M planning to relevant instrutions	Kan/Omi	Plan						
Support RWSSD and the target distribs to conduct taining for capacity development in OSV supports seem for unalwater supply facilities.	Ka1/Omi	Plan Actual						
Support RVSSD are the target custics to conductor-eparation of the part part of the part o	, Ngani /Ogata/ Takanssni	Plan Actud						
Support RWSSD and the target districts to implement the pilor.  24. subprogram on O& V (distables) water service provider and train HPMs.	Usami / =urukawa /	Plen						
and careadors.) Support RWS SD and the target districts to implement MRE of the pilot submorphisms of the pilot submorphisms of the pilot submorphisms of the pilot submorphisms.	Mizuyon / Kan	Actual Plan						
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24 Support he target defines to form HPMA.	Nigauri / Usami	Plen						
2-8 Support he rarget districts to conduct having to HPMs and HPM As.	Ogata / Takahashi							
Support he trained HPMs to conduct degrice is and repair on small water supply toulities.	Tonidokoro/Saio/ Ogata/Takanashi	Plan						
2-10 Support the target districts to guide the management of HPIW; s to anhance its function.	Nigauri / Usami	Plan Actual						
2-1' Support the target districts to implement V&E at HPIVA's extitution,	Mituyori / Kan	Plan Adua						
2-17 Improve the supply chain of soare parts in the larget districts.	Usami/Takahashi	Plan Adud						
2-13 Held a periodic meeting with all TSUs to share progress, ideas, and	Nigauri / Usami	Plan						

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34 Support fre target districts to form ulate the WSC training program	Kan/Omi					
WECs	Kan/Omi Flai					
Support the target districts to implement monitoring and evaluation	Mizuyoni / Kan					
(M&E) O'WSUS SCIVIDES Support the testing of the Merchant management of MC Co in the	V CO					
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users in meptia subprogram.	Agua					
Support WSCs to Implement IV&E of the oil of subprogram,	Mituyori / Kan Acud					
Support the target districts to take corrective actions based on the results of M&E.	Miauyoni / Kan Actud					
Output 4. Capacity to supervise development of rural water supply facilities is strengthened.	upply facilities is strengthened.					
Fcm Late training orogram (e.g. steps and techniques for horehole					E	
sting.customize of fand pump fadility resistant to boor water quality, supervision of construction and installation of hand bumps, etc., to RANS SD and DIVIDE.	Ngauri/ akahashi Adual					
Implement the training program to RWSSD and DWOs.	Takahashi / Yan / Plan Omi Acud					
Support RWSSD and the target districts to implement supervision of	Isami/ Takabachi					
torehole dri ling, construction, and rehab li ation.						
Implement Mike of Supervisor activities for botehole of ling, construction, and corabilitation.	Mizuyori / Kan Pilan Actual					
Output 5: H&S in the pilot communities is improved.						
Select the communities for H&S promotion	Hshida/ Mizuyori Plan Actual					
Support he target districts to formulate the annual work plans on the	Hishida / Mizuyori					
awareress campagator H&S in the selected communities.   Conduct ToT on awareness campain for H&S at the Central	Acua					
Coverim ent and in the larget districts.	Hishida/ Mizuyori Acud					
Support he target defrites to implement avereness campaign for H&S in the salart at ere minitias.	Hishida/ Mizuyoni Agual					
Monitor Implementation of awareness campaign for H&S and take	Miayori / Kan Plan					
collective measures in inserted communities. Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders (all rel	e shared widely with stakeholders	evant U	gandaninstutions, other donors, NGO etc.)			
Summarzegod practices and lessons learnt from the admittee related in Outbuts 2-5	Nigauri / Usami Plan					
	Nivari / Itami					
manuals regarding O&M based on the activities of Outputs 2-5 Organize learning platforms to disseminate good practices and lessons	Nigori / Ihowi Plan					
earned obtained at the activity 6-1						
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	onitoring Plan		}		1	2	٠,	7	'5	₹	3	=	l ₽		n		5	Public Relations		
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### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

Version of the Sheet: Ver. 5 (November 2018)

Name: Joseph Oriono Eyatu

Title: Project Director

Name: Yasuhide Nigauri

Title: Chief Advisor

Submission Date: 29th November 2018

### I. Summary

### 1 Progress

### 1-1 Progress of Inputs

Inputs	Plan as of October 2018	Actual as of October 2018
Experts	Input from Japan	Input from Japan
	Total: 106.37MM/116.74MM (91.12%)	<u>Total: 106.67MM/116.74MM (91.37%)</u>
		Progress: +0.30% from the plan
	11 Short Term Experts as follows:	11 Short Term Experts as follows:
	1. Chief Advisor/Rural Water Supply/	1. Chief Advisor/Rural Water Supply/
	Organizational Management	Organizational Management
	(16.93MM)	(16.93MM)
	2. Vice Chief Advisor/Operation and	2. Vice Chief Advisor/Operation and
	Maintenance of Rural Water Supply	Maintenance of Rural Water Supply
	Facilities 1 (9.50MM)	Facilities 1 (9.50MM)
	3. Rehabilitation of Rural Water Supply	3. Rehabilitation of Rural Water Supply
	facilities 1/Construction supervision 1	facilities 1/Construction supervision 1
	(0.87MM)	(0.87MM)
	4. Hydrogeology 1 (10.00MM)	4. Hydrogeology 1 (10.00MM)
	5. Hydrogeology 2 (8.33MM)	5. Hydrogeology 2 (8.33MM)
	6. Hygiene and Sanitation 1 (9.40MM)	6. Hygiene and Sanitation 1 (9.67MM)
	7. Hygiene and Sanitation 2/Organizational	7. Hygiene and Sanitation 2/Organizationa
	Analysis 1/Monitoring and Evaluation	Analysis 1/Monitoring and Evaluation
	1 (7.20MM)	1 (7.23MM)
	8. Audit System (3.47M/M)	8. Audit System (3.30M/M)
	9. Labor Management I (1.50M/M)	9. Labor Management 1 (1.50M/M)
	10. Society 1/ Organizational Analysis 2/	10. Society 1/ Organizational Analysis 2/
	Monitoring & Evaluation 2 (6.50MM)	Monitoring & Evaluation 2 (6.67MM)
	11. Operation and Maintenance of Rural	11. Operation and Maintenance of Rural
	Water Supply Facilities 2 / Labor	Water Supply Facilities 2 / Labor

	Management / Society 2 (9.67MM)	Management / Society 2 (9.67MM)
	1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)	1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)
	Input from Uganda  1. Mutiibwa Robert (Principal Water Officer), Project Manager  2. Ssenfuma Samuel (Hydrogeologist), Liaison Officer  3. Enangu Moses (Senior Assistant), Liaison Officer  4. Martha Naigaga (EHO) Liaison Officer  5. Marcia Tusiime (EHO) Liaison Officer  6. Eng. Bateganya David (Senior Engineer) Liaison Officer  7. Adima Israel (Engineer) Liaison Officer  8. Mugeiga Kato (Social Scientist) Liaison Officer — Piped water schemes  9. Bisoborwa Paul (Social Scientist) Liaison Officer — Point water sources  10. Nakasagga Jackline (Social Scientist-Traince) Liaison Officer	Input from Uganda  1. Mutiibwa Robert (Principal Water Officer), Project Manager  2. Bisoborwa Paul (Social Scientist)     Liaison Officer — Point water sources  3. Martha Naigaga (EHO)  4. Marcia Tusiime (EHO)  5. Nakasagga Jackline (Social Scientist-Trainee), Administrator the of Service Centre  6. Kajumba Grace (Graduate Trainee), Head Technical Operations of the Service Centre  7. Eng. Bateganya David (Senior Engineer)     Liaison Officer  8. Katumba Willy (Borehole maintenance superintendent)  9. Kwagalakwe Asenath (Graduate Trainee)  10. Mugeiga Kato (Social Scientist)     Liaison Officer — Piped water schemes  11. Alamai Marion (Graduate Trainee ~Jan. 2017)  12. Mukamwiza Hope (Trainee Accountant), Accountant of the Service Centre
Equipment	1st phase  1. Water Quality Analysis Kit:  - Spectrophotometer: 1 set  - Pack test (Iron) (50 pc.): 3 sets  - E-coli test paper (100 pc.): 3 sets  - Bacteria (100 pc.): 3 sets  2. Operation and Maintenance Tools for Rural Water Supply:	1st phase 1. Procured 2. Procured
	<ul> <li>Tool box for U2 hand pump: 32 sets</li> <li>Chain block and tripod: 4 sets</li> <li>GPS portable: 5 sets</li> <li>Copy machines: 2 sets</li> </ul>	3. Procured 4. Procured

	5. Projector: 1 set	5. Procured
	6. Vehicles: 1 station wagon and 1	6. Delivered to GoU by JICA
	pickup truck	,
	2 <sup>nd</sup> phase	2nd phase
	1. Water Quality Analysis material	1. Procured
	- Pack test (Nitrate) (150 pc.): 4 sets	
	- Pack test (Nitrate) (50 pc.): 2 sets	
	- E-coli test paper (100 pc.): 7 sets	
	2. Hand pump (U2): 100 sets	2. Hand pump (U2): 51 sets
		Hand pump (U2 extra deep): 19 sets
		Hand pump (U3 Modified): 1 sets
Training	Training in Japan and/or a third country	Training is under planning.
Ugandan Side	1. Allocation of counterparts and	1. Allocated including C/P of H&S
Operational	administrative personnel (Project	
Expenses	Director, Project Manager and	
	Counterparts)	
	2. Supply of replacement of machinery,	2. Replacement of vehicle tires and
	equipment, instruments, vehicles,	vehicle routine service will be
	tools, spare parts and any other	disbursed from project account.
	materials necessary for the	
	implementation of the Project other	
	than the equipment provided by JICA.	
	3. Allocation of office space and facilities	3. Office space and facilities in Kampala
	(office space for JICA experts in	(apartment lease until the end of June
	Kampala and the target districts, and	2018) and in Mubende DWO were
	other necessary facilities, equipment	allocated.
	and materials for administration of the	
	Project)	
	4. Counterpart-related costs (including	4. The costs will be disbursed from the
	salary, allowance and traveling cost for	project account.
	counterparts)	
	5. Running expenses necessary for the	5. The expenses will be disbursed from
	implementation of the Project	the project account.

### 1-2 Progress of Activities

Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of II&S condition is formulated

- Baseline survey was implemented.
- Capacity development strategy was established based on the activities.
- Progress report (No. 1) was submitted (June 2016).
- Activities of Output 1 were completed in the 1st phase.

Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts

- (1) Activities of pilot sub program in Mubende district
  - Formulation of training programs (Activity 2-1) and preparation of pilot subprogram of O&M (Activity 2-3) are implemented.
  - Activities using the above materials (Activity 2-2, 2-4, and 2-5) commenced as the pilot subprogram under Lot.1 in 8 sub counties in Mubende district.
  - 61 boreholes were rehabilitated in 8 sub counties in Mubende district (Activity 2-7).
  - 16 IIPMs (IIand Pump Mechanics) are trained in 8 sub counties in Mubende district (Activity 2-9).
  - The above HPMs are trained through rehabilitation works (Activity 2-10).
  - The service center orders HPMA (Hand Pump Mechanic Association) to repair hand pumps (Activity 2-11).
  - Project activities and plans are shared and discussed in the advocacy meeting 2018 in Mubende. (Activity 2-14)
- (2) Activities for control districts
  - Formulate the training program to strengthen CBMS (Community Based Maintenance System) (Activity 2-1)
  - ToT training for district staff about WSC (Water Sanitation Committee) training and sensitization of water users (Activity 2-2)
  - Well diagnosis work for selecting wells for rehabilitation (Activity 2-6)
  - Confirmation of reorganization of HPMA in Kiboga district which was not functioning during the baseline survey (Activity 2-8).
  - MoU between IIPMA and district local governments were signed regarding the management of the repair toolboxes which were procured in the 1st phase of the project (Activity 2-10).
  - MoU between HPMA and the local governments regarding report system for handpump repair (Activity 2-10)

Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts

- (1) Activities of pilot sub program in Mubende district
  - Formulation of training materials and training program is ongoing (Activity 3-1)
  - Training using above materials (Activities 3-4, 3-5, and 3-6) are implemented under Lot.1 in 8 Sub counties in Mubende district.
- (2) Activities for control districts
  - WSC training program was formulated (Activity 3-1)
  - Training for relevant district staff and sub-county extension workers in target districts were

implemented (Activity 3-2).

Output 4: Capacity to supervise development of rural water supply facilities is strengthened

- Capacity gaps were identified during the institutional analysis
- The team is planning to implement training focusing on supervision and technical skills for RWSSD (Rural Water Supply and Sanitation Department) and DWO (District Water Office) staff.

Output 5: Proposed ODF practices in the selected communities implemented.

- Baseline survey was conducted (Activity 5-3).
- 64 target villages were selected in Mubende district (Activity 5-1).
- CLTS (Community Led Total Sanitation) activities are being implementing with HAs (Health Assistants) in the target villages (Activity 5-2).

Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.

- Project team joined the National Hand Washing Day in Kamwenge district (Activity 6-4).

The detail of each activity is shown in the annex 1.

### 1-3 Achievement of Output

•	*OT: On time, SFL: Schedule	for later, DL: De
Output/Indicators	Major Results	Status*
Output 1: Strategy for capacity develor improvement of H&S condition	pment in O&M of rural water supply fa is formulated.	cilities and
1) Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document.	<ul> <li>Necessary documents were prepared as below;</li> <li>a) Progress Report (No.1) for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (June 2016)</li> <li>b) PDM (ver.2) (approved at 3<sup>rd</sup> JCC on 25 August 2016)</li> <li>c) Technical Note on the Operation and Maintenance System of Rural Water Supply for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (2 September 2016)</li> </ul>	OT

	the Second Stage Activities for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (6 December 2016)  e) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	
Output 2: O&M support system of rural strengthened in the target distri	water supply facilities in the public and privariets.	te sectors is
Training program on O&M of rural water supply is formulated.	<ul> <li>Training program on O&amp;M of rural water supply has been formulated as below;</li> <li>a) Scope of Works for Training of Trainers on O&amp;M of Rural Water Supply (August 2016)</li> </ul>	
	b) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	OT
	c) Formulation of materials for ToT for relevant district staff and sub-county staff in control districts. (April 2017)	
2) More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.	and WSC were implemented to District	ОТ
	- The review meeting for MWE (Ministry of Water and Environment), TSU (Technical Support Unit), and Mubende district were held from 11-12 September 2018. The participants were:  1. 10 MWE staff, 2. 2 TSU staff, 3. 9 Mubende district staff,	VI
The water service provider is established and functioning under		ОТ

	the pilot subprogram.	April.	
		- The service center has expanded the service area to cover 8 Sub counties in Mubende district as of October 2018.	
4)	O&M activities are implemented based on the annual workplans.	<ul> <li>Borehole diagnosis for selection of target facilities has been completed for 836 sites in 15 sub counties. Site selection for 8 sub-counties in Lot 1 has started. (September 2017)</li> <li>The support for site selection for borehole rehabilitation in control districts has been implemented. (so far 15 facilities in each of the 3 districts) (June 2017)</li> </ul>	ОТ
5)	At least 24 boreholes are rehabilitated in target districts.	- 31 non-functional boreholes have been rehabilitated as of September 2018.	ОТ
6)	At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.	<ul><li> 2-Week training of HPMs in 8 Sub counties of Mubende.</li><li> Training for other HPMs is under planning.</li></ul>	ОТ
7)	HPMAs in the target districts undertake repairs of handpumps.	- In control districts, MoUs between HPMAs and district local governments were signed regarding the management of the repair toolboxes provided by the project (April – May 2017).	ОТ
		- In control districts, MoUs between HPMAs and the local governments regarding report system of handpump repair were signed (May 2017).	ОТ
		- Mubende IIPMA undertakes repair of hand pumps through the Service Center.	ОТ
Ou	tput 3: Operational and management strengthened in the target dist	capacity of Water and Sanitation Committee	e (WSC) is
1)	More than 85% of WSCs which are trained in the Project are functional.	<ul> <li>The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts.</li> <li>1. Mpigi for 19 staff (19-20 April 2017)</li> <li>2. Kiboga for 19 staff (24-25 Λpril 2017)</li> <li>3. Butambala 15 staff (3-4 May 2017)</li> </ul>	ОТ
		The extension workers that have been trained will be supported to train the	

WSC in their communities	
- In Mubende, 61 WSCs out of 72 which were trained agreed to join the district direct management system (DDMS). This represents an 85% success rate.	
<ul> <li>O&amp;M of piped water supply facilities is improved activities are implemented.</li> <li>Bukomero T/C (Kiboga District)</li> <li>Kyanamugera RGC (Mubende District)</li> <li>Unyama, Koch-Goma, Awere, Corner-Kilak, Kitgum-Matidi (Acholi Sub Region)</li> <li>Details of the areas improved are attached as annex 2.</li> </ul>	ОТ
Output 4: Capacity to supervise development of rural water supply facilities is strengthen	ied.
<ul> <li>1) More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.</li> <li>- Capacity gaps have been identified by conducting institutional analysis.</li> <li>- Training plan is now under preparation.</li> </ul>	SFL
Output 5: Proposed ODF practices in the selected communities implemented.	
1) Proposed methodology effectively promote ODF presented and tested.  - Activities are implementing in 64 villages in Mubende district.  1. 18 Sub county meetings are held.  2. Baseline survey was completed.  3. Triggering was done in 64 villages.  4. Ist follow up activities were held in 42 villages.  5. 2nd follow up activities were held in 26 villages.	ОТ
6. Sanitation marketing was held in 7 villages.	
	SFL.
villages.  2) The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of	

lessons learned are distributed to stakeholders.		
Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized.	<ul> <li>NGO Meeting in Mubende (16th May 2018)</li> <li>Team exhibited project activities in National Hand Washing Day event (15th October 2018).</li> </ul>	ОТ

### 1-4 Achievement of the Project Purpose

- Functionality of rural water supply facilities in target districts is increased from 81% to 83% (SPR2018). The target is 85%.
- The rate of WSCs collecting water charges and conducting maintenance of rural water supply facilities in the target districts is 77% in DDMS sources in Mubende according to the result of water charge collection in October. The target is 70%.

### 1-5 Changes of Risks and Actions for Mitigation

- There is a possibility that Project Purpose indicator 2 ("The rate of WSCs collecting water charges and conducting maintenance of rural water supply facilities in the target districts") might not be achieved if the number of DDMS sources in Mubende which do not pay user fees keeps increasing.
  - The actions for mitigation is to use the CDOs/HAs (Community Developing Officers / Health Assistants) who were trained through ToT under Lot 1 to conduct follow up activities upon undertaking situational analysis and deciding on the appropriate corrective/remedial actions.
- There is a possibility that Λetivity 3-2 ("Support the target districts to implement capacity development of WSCs") and Activity 3-3 ("Support the target districts to implement monitoring and evaluation (M&E) of WSCs") may not be achieved in the Control Districts (CBMS) because they are dependent on well rehabilitation by Ugandan budget which has not yet been done in Mpigi and Butambala districts. This makes it impossible to identify the target communities for the Λetivities.
  - The actions for mitigation is to target the communities using the boreholes which are to be rehabilitated during HPM technical training (on-site training) for Activity 3-2 and 3-3. The HPM technical training is scheduled to take place December for Kiboga and in January for Mpigi & Butambala.

### 1-6 Progress of Actions undertaken by JICA

- N/A

### 1-7 Progress of Actions undertaken by Gov. of Uganda

- N/A

### 1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

## 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

- N/A

# 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

 Wells of Life (an NGO from USA) held a meeting with MWE on 1st August, 2018. They agreed to cooperate with DDMS. It means that all wells constructed by the NGO will join DDMS. But the details are not concluded yet.

### 2 Delay of Work Schedule and/or Problems (if any)

### 2-1 Detail

- The formulation of training manuals for the pilot subprogram in Mubende required additional four (4) months than expected. Because it was necessary to pay special attention to the training material formulation because of DDMS (District Direct Management System) being a new concept. The related activities are as follows:
  - (Activity 2-1) Formulate training programs on O&M planning to relevant institutions.
  - (Activity 2-2) Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions Kick-off meeting
  - (Activity 2-4) Support RWSSD and the pilot district to implement the pilot subprogram on O&M (establish the water service provider and support the management & operation of the provider).
  - (Activity 2-5) Support RWSSD and the pilot district to implement M&E of the pilot subprogram on O&M.
  - (Activity 2-7) Project Team undertakes rehabilitation in the target districts.
  - (Activity 2-9) Support the target districts to conduct training to HPMs and HPMAs.
  - (Activity 2-10) Support the trained HPMs to conduct diagnosis and repair on rural water supply facilities.
  - (Activity 2-11) Support the pilot district to guide the management of HPMAs to enhance its function.
  - (Activity 2-12) Support the pilot district to implement M&E of HPMAs activities.
  - (Activity 2-13) Improve the supply chain of spare parts in the pilot district.
  - (Activity 3-1) Support the target districts to formulate the WSC training program
  - (Activity 3-4) Support the target districts to implement regeneration of WSCs in the pilot subprogram.

(Activity 3-5) Support the target districts to implement awareness campaign to water users in the pilot subprogram.

(Activity 3-6) Support WSCs to implement M&E of the pilot subprogram.

(Activity 3-7) Support the target districts to take corrective actions based on the results of M&E

### 2-2 Cause

- The training materials of the pilot sub program had been almost finalized as of mid. October 2017. It was expected that field trainings would start from November 2017. The original idea was that the training materials would be revised as they are being used.
- However the Project Manager strongly insisted that the manuals should be finalized prior to their application in the pilot district to prevent the possibility of conveying wrong messages.
- Therefore the Project Team decided to implement a pre-test in Mukono district (late November 2017). This had not been scheduled in the work plan (Jan., 2017).
- As a result, the revision of manuals extended to February 2018.
- Eventually, the pilot subprogram in Mubende commenced in March 2018.

### 2-3 Action to be taken

- In the latter half of the activity in Mubende district (Lot. 2), while focusing on the outcome required from the pilot subprogram, concretize the methods and quantities that can be implemented within the project period, create a work plan and agree to it within the team.

### 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

Revise R/D for PDM

### 3 Modification of the Project Implementation Plan

### 3-1 PO

- PO was updated. (See the attached Monitoring Sheet Form 3-3.)

- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - The project purpose indicator and some output indicators had not been set. And some activities needed review to reflect the actual situation. Project team discussed the proposed amendment of PDM with JICA monitoring mission team and Director of MWE. And the result is agreed in M/M of 7th May, 2018.
  - Indicators regarding hygiene and sanitation had been agreed in the Technical Notes dated 22nd

February, 2018. However the Project Director strongly requested that measurable indicators to be set. As a result of discussion, the new indicator was set to "household access to sanitation facilities with hand washing facilities" during above mission. The target indicator will be set using trend analysis upon obtaining the 2nd follow up results.

- 4 Preparation of Gov. of Uganda toward after completion of the Project
  - N/A
- II. Project Monitoring Sheet I & II as Attached

# Project Monitoring Sheetl (Revision of Project Design Matrix)

Im plementing. Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Divisionment (MWE) Project Title: The Project for Operation & Maintenance for Rural Water Supply and Improved Llygiene and Sanitation

November, 2018

Ver. 5

Target Groups: MWE, RWSSD, District officers in charge of rural water supply and samitation in the target districts

Period of Project: 4 years from the date when the first JICA Expert is dispached

Project Sites Kampala (RWSSD) and 4 Districts (Kiboga, Mub and c, Butambala and Mp igi district)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
Overal Goal  Operation & maintenance (O & M) policy and system of rural water supp by facilities improved by the Central Government are adapted to wide area in U ganda	Functionality of rural water supply facilities in the Central Region is improved     Households access to larines and hand washing facilities in the Central Region is in oreased.	Sector Performance Report			
Project Purpose O&M system of furial water supply facilities and hygiene and senitation (H&S) in the target districts, and system of the Central Government relating to O&M are improved	1. Functionality of rural water supply facilities in the larget districts is increased from 81% to 85%. 2. The rate of W.S.C. collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. 3. The down time of rural water supply facilities is reduced in the target districts. 4. Household access to samination facilities with hand washing facilities in the selected villages is increased from ************************************	1. Sector Performance Report 2. Project documents 3. Project documents 4. Project documents	Policies on rural water supply are not significantly changed linancial resources which are currently allocated to the target districts are not significantly decreased in Central region		
Outbuts 1. Strategy for apacity development in O&M of rural water supply facilities and improvement of 11&S condition is formulated	1 Project approach for capacity development on O&M of rural water facilities and improvement of 11&S condition is formulated as document	l Project documents	Financial resources currently allocated to the target districts are not significantly decreased	I. Project approach for capacity development on O&M of rural water facilities including rural piped supply schemes and improvement of H&S condition were formulated.	
2. O&M support system of rural water supply facilities in the public and private sectors is streng thened in the target districts	2-1 Training program on O&M of rural water supply is formulated. 2-2 More than 20 staffs from RWSS13 and the target districts in charge of water supply and sanitation receive the ToT. 2-3 The water service provider is established and functioning under the pilot subprogram. 2-4 O&M activities are implemented based on the annual workplans. 2-5 At least 24 boreholes are rehabilitated in	2-1 Pro ject documents 2-2 Pro ject documents 2-3 Pro ject documents 2-4 Pro ject documents 2-5 Pro ject documents 2-6 Pro ject documents 2-7 Pro ject documents		2-1. Training program on O&M of rural water supply was formulated. 2-2. Total 15 district staff in control districts received Tot. 2-3. The service center has expanded the	

Remarks				
Achievement	service area to cover 8 Sub counties in Nubende district as of Ocubb et 2018.  2-4. Well diagnosis work was implemented. 2-5. 31 non-functional boreloles have been rehabilitated as of September 2018. 2-6.2-Week training of HPMs in 8 Sub counties of Mubende. 2-7 Mu ben de HPMA und ortakes repair of hand pumps through the Service Center.	3-1. In Nubende, 61 WS Cs out of 72 which were trained agreed to join the district direct management system (DDMS). The represents an 85% success rate. 3-2. 7 piped water supply facilities were improved their O&M		implementing in 64 villages in Muber de district.  1) 18 Sub county meetings are held.  2) Baseline survey was completed.  3) Triggering was done in 64 villages.  4) 1st follow up adivities were held in 42 villages.  5) 2nd fellow up activities were held in 26 villages.
Important Assumption				
Means of Verification		3-2 Project documents	4-1 Project documents	5-1 Project documents 5-2 Project documents
Objectively Veriffable Indicators	target districts.  2-6 At least two Hand Pump Medianics (HPMs) are trained on site in each sub-county.  2-7 HPMAs in the target districts undertake repairs of handpumps.	3-1 More than 85% of WSCs which are trained in the Project are functional.  3-2 O&M of piped water supply facilities is improved where activities are implemented.	4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training	5-1 Proposed methodology to effectively promote ODF are presented and tested. 5-2 The results of activities are compiled, and lessons learni are extracted for recommendation on that effective implementation of CLTS increentions.
Narrativ e Summa 17		3. Operational and management capacity of Water and San fatton Committee (WSC) is strong frened in the target districts	4. Capacity to supervise development of rural water supply facilities is strengthened	5. Proposed ODJ: practices in the selected communities implemented.

Remarks		
Achievement	6. Sanitation marketing was held in 7 villages.  6-2 Team exhibited project activities in National Hand Washing Day event	(1.5th October 2018)
Important Assumption		
Means of Verification	6≠1 Project documents 6+2 Project documents	
Objectively Verifiable Indicators	6-I Documents of good practices and lessons (-1 Project documents learned are distributed to stakeholders (-2 Project documents disseminate good practices and lessons learned are organized	ŭ
Narrativ e Su mma 13	6. Good practices and lessons lærnt in the Project are shared widely with stakeholders in the water and sanitation sector.	

Activities	stu du I	uts	Important As sumption
[Actitles for Output 1]  1-1 Set up a Working Group (WG) to discuss the framework of O&M system of rural water supply facilities and improvement of sanitation condition  1-2 Review existing policy framework and have regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders and samitation to clarify responsibilities and challenges of stakeholders are a project papeared districts  1-3 Conduct base fine surveys in the target districts  1-4 Share findings of good practices and Issons karm of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges  1-5 Formulate a project approach for capacity development of relevant institutions based on the results of facilities 1-2-1-4  1-6 Formulate PDM(ver. 1) and PO(ver. 1)  2-1 Formulate PDM(ver. 1) and PO(ver. 1)  2-2 Support RWSSD and the target districts to conduct preparation of the pilot aleptorate with the regists to conduct preparation of the pilot as subprograms on O&M (formulate a framework of here O&M system, support district local government to draw up ordinances for the pilot subprogram on O&M (formulate a framework of here O&M system, support district local government to draw up ordinances for the pilot subprogram on O&M (formulate a framework of here O&M system, support district local government of draw up ordinances for the pilot subprogram on O&M (formulate a framework of here O&M system, support districts to ended the ranged work plans.  2-5 Support the target stricts to formulate the am ual work plans and rapid of the ranged districts to form HPMA.  2-6 Support the target districts to form the management of HPMAs and HPMAs.  2-7 Pologet Team undertakes rehabilitation in the target districts.  2-8 Support the target districts to form the management of HPMAs and HPMAs.  2-9 Support the target district to imp kment M&E of HPMAs advisites.  2-11 Support the pilot district to imp kment M&E of HPMAs advisites.  2-12 Support the pilot district to imp kment Mere Pros	The Japaness sile  1. Personnel:  - Chief A dvisor/Rur al Water Supply/Organization al Management  - O & M of Rural Water Supply Facilities (Hand pump)  - Rehabilitation of Rural Water Supply Facilities (Hand pump)/Construction Supervision  - Hydrogeology  - Office and Sanitation  - O & M of Rural Water Supply Facilities (Priped water supply) / Project Condination  - Other experts if necessary  2. Equipment: Office equipment, two vehicles, tool kits, and others  3. Training in Japan and/or a for decountry  4. Project activities fee	The Ugandan side  1. Allocation of counterparts and all ministrative perso mel  Project Director  Project Manager  Counterparts  2. Equipment and materials for administration of the Project  Rampala and the target districts  Working space for JIC A experts in Kampala and the target districts  Other necessary facilities, out pment and materials for administration of the Project  4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)  5. Runn ing expenses necessary for the implementation of the Project  5. Runn ing expenses necessary for the implementation of the Project	

# ■The budget for the Project to be borne by the Ug and an side is Pro-Conditions 3-1 Support the target districts to formulate the WSC training program [Activities for Output 3]

secured

3-3 Support the target districts to implement monitoring and evaluation (M&E) 3-4 Support the pilot district to implement regeneration of WSCs in the pilot of WSCs activities

3-2 Support the target districts to implement capacity development of WSCs

3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram. subprogram.

3-6 Su pport WSCs to implement M&E of the pilot subprogram. 3-7 Su pport the target districts to take corrective acts ns based on the results of

customize of handpump facility resistant to poor water quality, supervision of construction and in stallation of handpumps, etc.) to RWSSD and DWOs 4-1 Formulate training program (e.g. steps and techniques for borch old siting, [Activities for Out put 4]

4-2 Implement the training program to RWSSD and DWOs.
4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.

4-4 Implement M& R of supervision activities for borehole drilling, construction, and rehabilitation.

# [Activities for Out put 5]

5-1 Project Team selects target villages and schools for CLTS sensitivation and target domo sites for latrine construction in Mubende.

5-2 Project Team makes a roll-out program and coordinates with Sub-county

5-3 Project Team conducts a baseline survey at selected sites.
5-4 Project Team conducts CL/IS sensitization (triggering to monitoring) and latrine construction demos.

5-5 Project Team compiles lessons learnt including categorized approaches for behavior change and demo latrine designs as documents from the implemented interventions.

# [Activities for Out put 6]

6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2~5

6-2 Review and propose revision of the existing hand books and training manuals regarding O&M based on the activities of Outputs 2~5

6-3 Organize learning platforms to disseminate go od practices and besons learned obtained at the activity 6-1 6-4 Share good practices and lessons bearned from the Project with stakeholders in the water and sanitation sector

budgetary stepsofUgandan side by the Minutes of Meeting dated Dec. MWI! and the Project Team have Assues and Countermeasures> 6, 201 6 witnessed by JICA. made an agreement on the

Bank account for the project was opened (8th September 2017).

project funds to the project account Allocation and disbursement of is ex œuted on 18th October.

Project Monitoring Sheet II (Revision of Plan of Operation)

TIGGET THE TIME TO DECENDED WINDS THE TRANSPORT OF THE TOTAL WATER ONE DIS	いししば Water シログレヴ のいり いいいい シャン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	and in proceding series and a sample to the			
NPUTS	Plan   2015   20   3   4   5   8	8 7 8 9 10 11 12 1	20°7   2 3 4 5 6 7 8 9 10 11 12	2018 1 2 3 4 5 6 7 8 9	9 10 11 2 1 2 3 4 5 6 7 8
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Chief Advisor / Rural Water Supply / Organizational Management	Plan				
Vice Chief Advisor / Operation and Maintenance of Rural Water Supply Facilities	Plan Actual				
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Rehalf litation of Aural Water Supply fadilities 2/Construction supervision 2					
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Hydrogeology 2	Plan				
Hydrogeology 2	Plan Actual				
Hygiene and Sanitation 1	Plan				
Hygiene and Sanifation 27 Organizational Analysis 17 Monitoring and Evaluation 1	Plan Actual			The state of the s	
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Society 2 / Public Relations / Financial Management / Project Coordinator		Harris and the state of the sta	ALTERNATION OF THE PROPERTY OF		
Socety 2 / Project Coordinator	Plan				
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Water Quality Analysis Kit	Plan Actual				
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put 1: Strategy for capacity development in O&M of nural war Selin a Working Groun (Wall ordisciss the famework of D&Ms selen of	
Set in a Working Group (ING) to dispuse the framework of O&Ms velon of	er supply facilities and im provement of H&S condition is formulated.
	Plan Actual
Reviow existing poley framework and laws regarding O&M of rural water 1-2 supply and sanitation to darify responsibilities and challenges of sakeholders	Plan
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Share findings of good practices and lessons leamt of ural waler suptly.  14 and sanitation atthe WC and prepare a eport of the present situation and challenges.	Plan
a project approach for capacity development of refevant based on the results of activites 1-2~14	Plan
1-5 Formulate PDIM(ver2) and PO(ver2)	Plan Actual
Output 2: O&M support system of rural water supply facilities in the public and	the public and private sectors is strengthened in the target districts.
2-1 Formulate training programs on O& M planning to relevant institutions	Plan
Support RMS SD and the larget districts to conduct training for capacity development in O&M support system for rurd water supply facilities.	Plen Actual
lo: upport ram,	Pier
20	Nitrial Williams
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pilot district to implement M&E of the pilla	Plant.
Irricts to formulate the amual work plans and be, go borehole of agnosis and rehabilitation, water based on the amual work plans.	Plan
rics	Plan Actual
2-8 Support the taget districts to form HPMA.	Plan
2-9 Support the target districts to conduct training to HPMs and HPMAs.	Plan
2-10 Support the trained HPMs to conduct clagross and repair on rural water supply facilities.	Plent
t district to guide the management of HP MAs to enhance. Its	its Plan Actual
2-12 Support the pilot district to implement M& E of LIPM As activities.	Plan Actual
	Actual Actual
Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-noting activities.	Man Actual

	ACTIVITES	Plan/		-	1 1									20.19
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Output 3: Operational d	Output 3: Operational capacity of Water and Sanitation Committee (WSC) is stre	ee (WS	C) is st	rengthene	ngthened in the target districts.	districts.								
3-1 Support the target distr	Support the taget districts to form ulate the WSC training program	Plan											- 1	
3-2 Support the target distr	Support the target districts to im plement capacity development of WSCs	Plan Actual				1								
3-3 Support the target distr WSCs activities	Support the target districts to implement mort buing and evaluation (M&E) of Plan WS.Cs activities	Plan Actual					***************************************		Approximation and the control of the			000		
34 Support the target distringularity subprogram.	Support the taget districts to implement regeneration of WSCs in the pilot subcoogram.	Plan Actual												
3-6 Support the target districts to uses in the pilot supprogram.	Support the target districts to implement awareness campaign to water uses in the pilot surprogram.	Plan Actual												
3-6 Support WSCs to imple	Support WSCs to implement M&E of the plot subprogram,	Plan Actual												
3-7 Support the target distr M&E	Support the taget districts to take corrective actions based on the results of MAE.												200	
Output 4: Capacity to s	Output 4: Capacity to supervise development of rural water supply facilities is	aly facil	lities is	strengthened	ned.		000							
Formulate training progressions that the customize of hand pure to construction and ins	Formulate training program (e.g. steps and eichniques for torehole siting, customize of frand pump facility resistant to poor water quality, supervision of construction and installation ofhand pumps, etc.) to RMSSD and DWOs.	Plan Actual										-		
4-2 Implement the training	Implement the training program to RWSSD and DWOs.	Plan	#10 #10 #10 #10 #10											
Support RWS SD and t	Support RWS SD and the target districts to implement supervision of	Plan	8						-					
mplement M&E of sup	mplement M&E of supervision activities for borehole of Illing, construction	Plan												
Output 5: H&S in the pil	put 5: H&S in the pilot communities is improved.	Vena	-60	2)			550		00					22
Project Teamseled's It	Project Team selects larget villages and schods for CLT Ssensitization and Plan	Plan							5		Walnus Walnus Com			
	arget demosfes for latrine construction in Mubende.  Project Team miskes a roll—out broaram and coordinates with Sub-county	Actual											_	-
5-2 saff.		Actual												
5-3 Project Team conducts	Project Team conducts a baseline survey at selected stes.	Plan Actual		*					# ( m ( ) #					
Fraging Team conducts CL lating construction demos	Project Team conducts CLTS sers fization (triggering to monitoring) and latire construction domos.	Plan Actual												
Project Team compiles 5-6 behavior change and o	Project Team comples lessons leant including calegorized approaches for behavior change and demolatine designs as documents from the				And the second s									
implemented interventions	tions.	Actual								3				
Output6: Good practice	tput 6: Good practices and lessons learnt in the Project are shared	harred v	widelyw	with stake	h stakeholders in the water	and	sanitation se	sector.						
Summarize gcod pract Outsufs 2~5	Summarize, good practices and lessons learnt from the advities related to Outsuffs $2\!-\!5$	Plan Actual												
Review and propose re manuals regarding O&	Review and propose revision of the existing hand books and training manuals regarding O&M based on the activities of Outbuts 2~5	Plan Actual			*									
Organize learning platforms to diss learned obtained at the activity 6-1	Organize learning platforms to disseminate good practices and lessons earned obtained at the activity 6-1	Plan Actual	No. of Control of Control	W	to the special control by one of		Maria Ma							
Share good practices a	Share good pradices and lessons learned from the Project with sake holders in the water and sortiation sector.	Plan												
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### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

Version of the Sheet: Ver. 6 (July 2019)

Name: Joseph Oriono Eyatu

Title: Project Director

Name: Yasuhide Nigauri

Title: Chief Advisor

Submission Date: 13th August 2019

### I. Summary

### 1 Progress

### 1-1 Progress of Inputs

Inputs	Plan as of July 2019	Actual as of July 2019
Experts	Input from Japan	Input from Japan
	Total: 106.37MM/116.74MM (91.12%)	Total: 116.24MM/116.74MM (99.99%)
	11 Short Term Experts as follows:	11 Short Term Experts as follows:
	1. Chief Advisor/Rural Water Supply/	1. Chief Advisor/Rural Water Supply/
	Organizational Management	Organizational Management
	(16.93MM)	(16.93MM)
	2. Vice Chief Advisor/Operation and	2. Vice Chief Advisor/Operation and
	Maintenance of Rural Water Supply	Maintenance of Rural Water Supply
	Facilities 1 (9.50MM)	Facilities 1 (9.50MM)
	3. Rehabilitation of Rural Water Supply	3. Rehabilitation of Rural Water Supply
	facilities 1/Construction supervision 1	facilities 1/Construction supervision 1
	(0.87MM)	(0.87MM)
	4. Hydrogeology 1 (10.00MM)	4. Hydrogeology 1 (10.00MM)
	5. Hydrogeology 2 (8.33MM)	5. Hydrogeology 2 (8.33MM)
	6. Hygiene and Sanitation 1 (9.40MM)	6. Hygiene and Sanitation 1 (9.67MM)
	7. Hygiene and Sanitation 2/Organizational	7. Hygiene and Sanitation 2/Organizationa
	Analysis 1/Monitoring and Evaluation	Analysis 1/Monitoring and Evaluation
	1 (7.20MM)	1 (7.23MM)
	8. Audit System (3.47M/M)	8. Audit System (3.30M/M)
	9. Labor Management I (1.50M/M)	9. Labor Management 1 (1.50M/M)
	10. Society 1/ Organizational Analysis 2/	10. Society 1/ Organizational Analysis 2/
	Monitoring & Evaluation 2 (6.50MM)	Monitoring & Evaluation 2 (6.67MM)
	11. Operation and Maintenance of Rural	11. Operation and Maintenance of Rural
	Water Supply Facilities 2 / Labor	Water Supply Facilities 2 / Labor

		T
	Management / Society 2 (9.67MM)	Management / Society 2 (9.67MM)
	1 Long Term Expert for Piped Water	1 Long Term Expert for Piped Water
	Supply/ Collaboration (23.00MM)	Supply/ Collaboration (23.00MM)
	Input from Uganda	Input from Uganda
	1. Mutiibwa Robert (Principal Water	1. Mutiibwa Robert (Principal Water
	Officer), Project Manager	Officer), Project Manager
	2. Bisoborwa Paul (Social Scientist)	2. Bisoborwa Paul (Social Scientist)
	Liaison Officer – Point water sources	Liaison Officer – Point water sources
	3. Martha Naigaga (EHO)	3. Martha Naigaga (EHO)
	4. Marcia Tusiime (EHO)	4. Marcia Tusiime (EHO)
	5. Nakasagga Jackline (Social	5. Nakasagga Jackline (Social
	Scientist-Trainee), Administrator the of Service Centre	Scientist-Trainee), Administrator the of Service Centre
	6. Kajumba Grace (Graduate Traince),	6. Kajumba Grace (Graduate Traince),
	Head Technical Operations of the	Head Technical Operations of the
	Service Centre	Service Centre
	7. Eng. Bateganya David (Senior Engineer) Liaison Officer	7. Eng. Bateganya David (Senior Engineer) Liaison Officer
	8. Katumba Willy (Borehole maintenance superintendent)	8. Katumba Willy (Borehole maintenance superintendent)
	9. Kwagalakwe Asenath (Graduate	9. Kwagalakwe Asenath (Graduate
	Trainee)	Trainee)
	10. Mugeiga Kato (Social Scientist)	10. Mugeiga Kato (Social Scientist)
	Liaison Officer – Piped water schemes	Liaison Officer – Piped water schemes
	11. Alamai Marion (Graduate Trainee ~Jan. 2017)	11. Alamai Marion (Graduate Trainee ~Jan. 2017)
	12. Mukamwiza Hope (Traince	12. Mukamwiza Hope (Trainee
	Accountant), Accountant of the Service	Accountant), Accountant of the Service
	Centre	Centre
Equipment	1st phase	1 <sup>st</sup> phase
	1. Water Quality Analysis Kit:	1. Procured
	- Spectrophotometer: 1 set	
	- Pack test (Iron) (50 pc.): 3 sets	
	- E-coli test paper (100 pc.): 3 sets	
	- Bacteria (100 pc.): 3 sets	
	2. Operation and Maintenance Tools for	2. Procured
	Rural Water Supply:	
	- Tool box for U2 hand pump: 32 sets	
	- Chain block and tripod: 4 sets	
	3. GPS portable: 5 sets	3. Procured
	4. Copy machines: 2 sets	4. Procured

	5. Projector: 1 set	5. Procured
	6. Vehicles: 1 station wagon and 1	6. Delivered to GoU by JICA
	pickup truck	
	2 <sup>nd</sup> phase	2nd phase
	1. Water Quality Analysis material	1. Procured
	- Pack test (Nitrate) (150 pc.): 4 sets	
	- Pack test (Nitrate) (50 pc.): 2 sets	
	- E-coli test paper (100 pc.): 7 sets	
	2. Hand pump (U2): 100 sets	2. Procured
	21 1 mm p (02). 100 3 <b>c</b> m	Hand pump (U2): 84 sets
		Hand pump (U2 extra deep): 33 sets
		Hand pump (U3 Modified): 1 sets
Training	Training in Japan and/or a third country	To be planned
Ugandan Side	Allocation of counterparts and	Allocated including C/P of H&S
Operational	administrative personnel (Project	1. Timocuted metadatig of a free
Expenses	Director, Project Manager and	
i impenses	Counterparts)	
	2. Supply of replacement of machinery,	2. Replacement of vehicle tires and
	equipment, instruments, vehicles,	vehicle routine service will be
	tools, spare parts and any other	disbursed from project account.
	materials necessary for the	
	implementation of the Project other	
	than the equipment provided by JICA.	
	3. Allocation of office space and facilities	3. Office space and facilities in Kampala
	(office space for JICA experts in	and in Mubende DWO were allocated.
	Kampala and the target districts, and	
	other necessary facilities, equipment	
	and materials for administration of the	4. The costs will be disbursed from the
	Project)	project account.
	4. Counterpart-related costs (including	1 -3
	salary, allowance and traveling cost for	5. The expenses will be disbursed from
	counterparts)	the project account.
	5. Running expenses necessary for the	( -,
	implementation of the Project	

### 1-2 Progress of Activities

Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated

- Baseline survey was implemented.
- Capacity development strategy was established based on the activities.
- Progress report (No. 1) was submitted (June 2016).
- Activities of Output 1 were completed in the 1<sup>st</sup> phase.

- Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende and Kassanda districts
    - (Activity 2-1) Formulation of training programs and preparation of pilot subprogram of O&M is completed
    - (Activity 2-3) a preparation to implement a pilot subprogram on O&M are completed (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot subprogram, and select the target sub-counties and the target WSCs).
    - (Activity 2-2, 2-4, and 2-5) completed.
    - (Activity 2-7) 96 boreholes were rehabilitated in 9 sub counties in Mubende district and 9 sub counties in Kassanda district.
    - (Activity 2-9) 36 IIPMs (Hand Pump Mechanics) were trained in 18 sub counties in Mubende and Kassanda districts.
    - (Activity 2-10) The above HPMs were trained through rehabilitation works.
    - (Activity 2-11) The service center is ordering HPMA (Hand Pump Mechanic Association) to repair hand pumps when customer communities report a defect.
    - (Activity 2-12) A working meeting was organized for HPMAs to coordinate activities in April 2019.
    - (Activity 2-13) A supplier of spare parts and the project concluded a supply contract in Mubende district
    - (Activity 2-14) Project activities and plans were shared and discussed in a TSU meeting in May 2019 in Kampala.
  - (2) Activities for control districts
  - (Λctivity 2-1) Λ training program was formulated the to strengthen CBMS (Community Based Maintenance System)
  - (Activity 2-2) ToT training was conducted for district staff about WSC (Water Sanitation Committee) training and sensitization of water users.
  - (Activity 2-6) Well diagnosis work was conducted for selected wells for rehabilitation.
  - (Activity 2-8) HPMA in Kiboga district was reenergized, which was not functioning during the baseline survey.
  - (Λctivity 2-10) MoU was signed between IIPMΛ and district local governments regarding the management of the repair toolboxes which were procured in the 1st phase of the project.
  - (Activity 2-10) MoU was conclude between HPMA and the local governments regarding report system for handpump repair.

Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened

in the target districts

- (1) Activities of pilot sub program in Mubende district
  - (Activity 3-1) Formulation of training materials and training program is completed
  - (Activities 3-4, 3-5, and 3-6) Training using above materials are completed in 18 sub-counties in Mubende and Kassanda districts.
- (2) Activities for control districts
  - (Activity 3-1) WSC training program was and implemented
  - (Activity 3-2) Training for relevant district staff and sub-county extension workers in target districts were implemented.

Output 4: Capacity to supervise development of rural water supply facilities is strengthened

- (Activity 4-1) Training materials were developed.
- (Activity 4-3) Project Team conducted the site inspection of rehabilitated facilities with MWE staff, DWO staff, and Sub county staff in Mubende and Kassanda districts.
- (Activity 4-4) Project Team confirmed the all detected flaws were improved.

Output 5: Proposed ODF practices in the selected communities implemented.

- (Activity 5-4) Project Team completed CLTS sensitization (triggering to monitoring) and latrine construction demos.
- (Activity 5-5) Lessons learnt were compiled and produced as a booklet including categorized approaches for behavior change and demo latrine designs.

Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.

- (Activity 6-4) Project team participated in the World Water Day in Entebbe on March 22<sup>nd</sup> 2019, which was part of Uganda Water and Environment Week.

The detail of each activity is shown in the annex 1.

### 1-3 Achievement of Output

\*OT: On time, SFL: Schedule for later, DL: Delay

Output/Indicators Major Results Status\*

Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.

- Baseline survey revealed failure of CBMS.
- A system was proposed in which District directly manage O&M of water supply facilities (DDMS) and it was decided to test-run the system in Mubende (later divided into Mubende and

	Kassanda) as a pilot subprogram.		
1)	Project approach for capacity development on O&M of rural	- Necessary documents were prepared as below;	
	water facilities and improvement of H&S condition is formulated as document.	a) Progress Report (No.1) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (June 2016)	
		b) PDM (ver.2) (approved at 3 <sup>rd</sup> JCC on 25 August 2016)	
		c) Technical Note on the Operation and Maintenance System of Rural Water Supply for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (2 September 2016)	Completed
		d) Minutes of Meeting on the Discussion of the Second Stage Activities for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (6 December 2016)	
		c) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	
Ou	tput 2: O&M support system of rural strengthened in the target district	water supply facilities in the public and privacts.	te sectors is
•	101 boreholes are enrolled to the maintained by the operation of the So	ew O&M system in Mubende and Kassanda, a ervice Centre.	and they are
•	Rehabilitation of boreholes are on-go	oing in Kiboga, Mpigi and Butambala with MW	E's budget.
1)	Training program on O&M of rural water supply is formulated.	- Training program on O&M of rural water supply has been formulated as below;  a) Scope of Works for Training of Trainers on O&M of Rural Water	
		Supply (August 2016)  b) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	Completed

		staff in control districts. (April 2017)	
2)	More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.	<ul> <li>The ToT for sensitization of water users and WSC were implemented to District staff in control districts;</li> <li>1. Mpigi – 3 district staff (19-20 April 2017)</li> <li>2. Kiboga – 5 district staff (24-25 April 2017)</li> <li>3. Butambala – 7 district staff (3-4 May 2017)</li> <li>The review meeting for MWE (Ministry of Water and Environment), TSU (Technical Support Unit), and Mubende district were held from 11-12 September 2018. The participants were:</li> <li>1. 10 MWE staff,</li> <li>2. 2 TSU staff,</li> <li>3. 9 Mubende district staff,</li> </ul>	Completed
3)	The water service provider is established and functioning under the pilot subprogram.	<ul> <li>The service center started the service for Kasambya and Kibalinga sub counties in April 2018.</li> <li>The service center has expanded the service area to cover 8 Sub counties in Mubende district as of October 2018.</li> <li>The service center caters for all 18 sub counties in Mubende and Kassanda districts as of May 2019.</li> </ul>	Completed
4)	O&M activities are implemented based on the annual workplans.	<ul> <li>Borehole diagnosis for selection of target facilities has been completed for 836 sites in 15 sub counties. Site selection for 8 sub-counties in Lot 1 has started. (September 2017)</li> <li>The support for site selection for borehole rehabilitation in control districts has been implemented. (so far 15 facilities in each of the 3 districts) (June 2017)</li> <li>Kiboga implements installation of BIIs in Kiboga district. Mpigi and Butambala districts wait for funding (June 2019)</li> </ul>	Mubende Completed Kiboga/ Mpigi/ Butambala Delayed
5)	At least 24 boreholes are rehabilitated in target districts.	- Borehole rehabilitation is completed for 96 sites including apron and fence. (July 2019)	Completed

	(HPMs) are trained on site in each sub-county.	<ul> <li>counties of Mubende.</li> <li>Training for other HPMs is conducted in Mubende, Kassanda, Kiboga, Mpigi and Butambala in November 2018, December 2018 and January 2019).</li> </ul>	
7)	HPMAs in the target districts undertake repairs of handpumps.	<ul> <li>In control districts, MoUs between HPMAs and district local governments were signed regarding the management of the repair toolboxes provided by the project (April – May 2017).</li> <li>In control districts, MoUs between HPMAs and the local governments regarding report system of handpump repair were signed (May 2017).</li> <li>Mubende HPMA undertakes repair of hand pumps through the Service Center.</li> </ul>	As the project completed As the service center operation: functional (on-going business
Or	atput 3: Operational and management strengthened in the target dist	capacity of Water and Sanitation Committee	as usual) e (WSC) is
•		or around 100 sources under DDMS and most	
•	44 WSCs in total were trained in Ki been completed yet for them to start Through the activities of JICA exper	vater supply facilities. boga, Mpigi and Butambala but rehabilitation v	work has not

		direct management system (DDMS). This represents an 85% success rate.  - In Mubende 100 WSCs that participate in DDMS function to collect water fee and functionality of their handpump in cooperation with their care-taker. The functionality target was 100 WSCs for the DDMS operation. Thus, targeted 100% are functional.	
2)	O&M of piped water supply facilities is improved where activities are implemented.	<ul> <li>The following 6 piped water supply facilities were improved through project activity (September 2017);</li> <li>Bukomero T/C (Kiboga District)</li> <li>Kyanamugera RGC (Mubende District)</li> <li>Koch-Goma, Awere, Corner-Kilak, Kitgum-Matidi (Acholi Sub Region)</li> </ul>	Completed
•	Training program was formulated t designing, bidding and supervision. period.  MWE and DWO staffs attended s	to fill the capacity gap of MWE and DWO. The training will be implemented in the corruption and completion inspections, which	in planning, ning project
1)	improve their capacity to supervise.  More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.	<ul> <li>Capacity gaps have been identified by conducting institutional analysis.</li> <li>Training plan is now under preparation.</li> </ul>	On-going
Ou		selected communities implemented.  effectively latrine construction demonstrations  CLTS activities. These were compiled in the Ha	
1)	Proposed methodology to effectively promote ODF are presented and tested.	<ul> <li>Activities are implementing in 64 villages in Mubende district.</li> <li>1. 18 Sub county meetings are held.</li> <li>2. Baseline survey was completed.</li> <li>3. Triggering was done in 64 villages.</li> <li>4. 1st follow up activities were held in 42 villages.</li> <li>5. 2nd follow up activities were held in 26 villages.</li> </ul>	Completed

		- Activities were completed. (March 2019)	
2)	The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	- A handbook was produced and approved by MWE. 25 copies of handbook are printed.	Complete
Ou	tput 6: Good practices and lessons lear water and sanitation sector.	rnt in the Project are shared widely with stakeh	olders in th
•	achievement.	nts to disseminate the Project activities an	nd mid <b>-te</b> r
	Good practices and lessons learnt in	the Project will be compiled and be shared.	
1)	Good practices and lessons learnt in  Documents of good practices and lessons learned are distributed to stakeholders.	T .	DL
	Documents of good practices and lessons learned are distributed to stakeholders.  Learning platforms (e.g. workshops) to disseminate good	T .	DL
1)	Documents of good practices and lessons learned are distributed to stakeholders.  Learning platforms (e.g.	- To be complied  - NGO Meeting in Mubende (16th May	DL.

### 1-4 Achievement of the Project Purpose

- Functionality of rural water supply facilities in target districts is increased from 81% to 83% (SPR2018). According to the Water Supply Λtlas Uganda, the functionality in Mubende reached 88% (2019). The target is 85%. Therefore, the project purpose is achieved.

March 22<sup>nd</sup> 2019.

World Water Day event in Entebbe on

- The rate of WSCs collecting water charges and conducting maintenance of rural water supply facilities in the target districts is 84% in DDMS sources in Mubende according to the result of water charge collection in June 2019.
- The down time of rural water supply facility is reduced to maximum 2 days (on the weekend, it takes longer than 24 hours)
- Household access to sanitation facilities with hand washing facilities in the selected villages reached at 18.9% at the end of the intervention (end line survey). The project purpose is an increase from 4.8% to 13.0%. Therefore, the project purpose is achieved.

### 1-5 Changes of Risks and Actions for Mitigation

- Activity 4-2 are planned to be implemented in September 2019.

### 1-6 Progress of Actions undertaken by JICA

- The project started discussion on an extension of the project period so as to strengthen the organizational capacity of new service center staff of DDMS and to further investigate the effectiveness of cost mitigation interventions in order to compile field experiences to draw lessons learnt and formulate policy recommendations.

### 1-7 Progress of Actions undertaken by Gov. of Uganda

N/A

### 1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

### 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

N/A

### 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

- Wells of Life (an NGO from USA) held a meeting with MWE on 1st August, 2018. They agreed to cooperate with DDMS. It means that all wells constructed by the NGO will join DDMS. But the details are not concluded yet.
- In July 2019 there is no further development on this initiative.

### 2 Delay of Work Schedule and/or Problems (if any)

### 2-1 Detail

- The following activities are delayed;

(Activity 4-1) Formulate training program (e.g. steps and techniques for borehole siting, customize of hand pump facility resistant to poor water quality, supervision of construction and installation of hand pumps, etc.) to RWSSD and DWOs.

(Activity 4-2) Implement the training program to RWSSD and DWOs

(Activity 6-1) Summarize good practices and lessons learnt from the activities related to Outputs 2--5.

( $\Delta$ ctivity 6-2) Support the target districts to conduct training to IIPMs and IIPM $\Delta$ s.

Partially delayed

(Activity 6-3) Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector.

⇒ Sharing experiences from the project was undertaken at events such as World Water Day,

however recommendations and lessons learnt are not drawn up to share with other stakeholders.

### 2-2 Cause

- The training materials of handpump facilities are delayed for its production. The cause is due to the interruption of the project time and decision making as to how to formulate the training program took a long time.
- The activities for output 2 to 4 are delayed. Therefore, a compilation of lessons learnt from the experience of the project is delayed.

### 2-3 Action to be taken

- In July 2019 the training materials are drafted. The material is going to be reviewed by the project manager from MWE and the training is planned to be implemented in September 2019.
- The project has come to a final phase and the lessons learnt have to be compiled to show a road map for upscaling to other areas. Although the DDMS shows positive outcomes such as shorter downtime, higher functionality, there is a deficit of approximately 8 million Ush per month as recurrent costs.
- To formulate better policy recommendations, MWE and JICA discuss a way forward to extend a
  project period to examine possible other options for the DDMS management in terms of water fee
  collections to reduce costs.

### 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

Revise R/D for PDM

### 3 Modification of the Project Implementation Plan

### 3-1 PO

- PO was updated. (See the attached Monitoring Sheet Form 3-3.)
- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - Indicators regarding hygiene and sanitation had been agreed in the Technical Notes dated 22nd February, 2018. However the Project Director strongly requested that measurable indicators to be set. As a result of discussion, the new indicator was set to "household access to sanitation facilities with hand washing facilities" during above mission. The target indicator were planned to be set using trend analysis upon obtaining the 2nd follow up results.

- The indicator regarding hygiene and sanitation was set and agreed after the  $2^{nd}$  follow up, using a regression analysis. The final agreement on the target figure was 13%.
- 4 Preparation of Gov. of Uganda toward after completion of the Project
  - N/Λ
- II. Project Monitoring Sheet I & II as Attached

# Project Monitoring Sheet1 (Revision of Project Design Matrix)

Implementing Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Diveronment (MWE) Project Title: The Project for Operation & Maintenance for Rural Water Supply and Improved Llygiene and Sanitation

Target Groups: MWE, RWSSD, District officers in charge of rural water supply and samiation in the target districts

July, 2019 Ver. 6

Period of Project: 4 years from the date when the first JICA Expert is disp arched

Project Sites Kampala (RWSSD) and 4 Districts (Kiboga, Mubanda, Butambala and Mpigi district)

		T	I
Remarks			
Achievement			■Basdinc survey revealed failure of CB MS.  ■ A system was proposed in which District directly manage O&M of water supply facilities (D DMS) and it was decided to test-run the system in Mubende (later divided into Mubende and Kassanda) as a pilot subtroctam.
Important Assumption		■ Policies on rural water supply are not significantly changed ■ Financial resources which are currently allocated to the target districts are not significantly decreased in Central region	Financial resources currently allocated to the target districts are not significantly decreased
Means of Verification	Sector Performance Report	Sector Performance Report   Project documents   Project document	l Project documents
Objectively Verifiable Indicators	Functionality of rural water supply facilities in the Central Reg ion is improved     Households access to larines and band washing facilities in the Central Region is inceased.	1. Functionality of rural water supply facilities in the larget districts is increased from 81% to 85%. 2. The rate of W.S.C. collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. 3. The downtime of rural water supply facilities is reduced in the larget districts. 4. Household access to sanitation facilities with hand washing facilities in the solected villages increased from 4.8% to 13.0%.	1 Project approach for capacity develop ment on O&M of rural water facilities and improvement of 11&S condition is formulated as document
Narrative Summary	Overal Goal  Operation & maintenance (O & M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in U ganda	Project Purpose O&M system of rural water supply facilities and hygiene and senitation (H&S) in the target districts, and system of the Central (fovernment relating to O&M are improved	Outputs  1. Stracgy for capacity development in O&M of rural waters upply facilities and improvement of 11&S condition is formulated

Remarks	e v cy y th c ga, b b a a a a a a a a a a a a a a a a a	kers ound of of their tural lities. he he he nus con	of MWE of MWE slaming, bidding ion. The
Achievement	■ 10 1 bo reh oles are enrolled to the new O&M system in Mubende and Kassanda, and they are maintained by the op eation of the Service Centre ■ Rehabilitation of bo reh oles are on going in Kiboga, Mpigi and Butambala with AWE's budget.	■ W.S.Cs and caretak ers are trained for around 100 sources under DDMS and most of them are paying their roles in O.&.M. of rural water supply facilities.  ■ 44 W.S.C. s. in total were trained in Kiboga.  N. Ipigi and Butambala but rehabilitation work has not been completed yet for them to start maintaining.  ■ Throughthe activities of JI.C.A. expert on piped scheme, trainsparency of the contract documents and reports has been maintained, and O.&.M. fee collection has been improved.	Training program was formulated to fill the capacity gap of MWE and DWO in planning, designing, bidding and supervision. The training will be
Important Assumption			
Means of Verification	2-1 Project documents 2-2 Project documents 2-3 Project documents 2-5 Project documents 2-6 Project documents 2-7 Project documents 2-7 Project documents	3-1 Project documents 3-2 Project documents	4-1 Project documents
Objectively Verifiable Indicators	2-1 Training program on O&M of rural water supply is formulated. 2-2 More than 20 staff's from RWSSD and the targer districts in charge of water supply and sanitation receive the ToT. 2-3 The water service provider is established and functioning under the pilot subprogram. 2-4 O&M activities are implemented based on the annual workplans. 2-5 At least 24 boreholes are rehabilitated in target districts. 2-6 At least 44 boreholes are rehabilitated in target districts. 2-6 At least wo Hand Pump Medianics (HPMs) are trained on site in each sub-counts. 2-7 HPMAs in the target districts undertake repairs of handpumps.	3-1 More than 85% of WSCs which are trained in the Project are functional.  3-2 O&M of piped water supply facilities is improved where active ties are implemented.	4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation to implete the training
Narrativ e Summa ty	2. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts	3. Operational and management capacity of Water and San itation Committee (WSC) is streng thened in the target districts	Capacity to supervise development of rural water supply facilities is stengthened

Narrative Summa ry	Objectively Veriffable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
				implemented in the coming project period.  MWI: and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise.	
5. Proposed ODF practices in the selected communities implemented.	5-1 Proposed methodology to effectively promote ODF are presented and tested. 5-2 The results of activities are compiled, and lessons fearnt are extracted for recommendation on thin effective implementation of CLTS interventions.	5-1 Project documents 5-2 Project documents		It contributed to ODF to arrange effectively latine construction demonstrations, san tation marketing and SLTS in addition to CLTS activities. These were compiled in the Handbook as a deliverable.	
6. Good practices and lessons feamt in the Project are shared widely with stakeholders in the water and sanitation sector.	6-1 Documents of good practices and lessons learned are distributed to stakeholders 6-2 Learning platforms (e.g., workshops) to disseminate good practices and lessons learn ed are organized	6-1 Project documents		■ Project Team participated in events to disseminate the Project activities and mid-term achievement.  ■ Good practices and lessons learnt in the Project will be compiled and be shared.	

Activities	stu du I	uts	Important As sumption
[Actitles for Output 1]  1-1 Set up a Working Group (WG) to discuss the framework of O&M system of rural water supply facilities and improvement of sanitation condition  1-2 Review existing policy framework and have regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders and samitation to clarify responsibilities and challenges of stakeholders are a project papeared districts  1-3 Conduct base fine surveys in the target districts  1-4 Share findings of good practices and Issons karm of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges  1-5 Formulate a project approach for capacity development of relevant institutions based on the results of facilities 1-2-1-4  1-6 Formulate PDM(ver. 1) and PO(ver. 1)  2-1 Formulate PDM(ver. 1) and PO(ver. 1)  2-2 Support RWSSD and the target districts to conduct preparation of the pilot aleptorate with the regists to conduct preparation of the pilot as subprograms on O&M (formulate a framework of here O&M system, support district local government to draw up ordinances for the pilot subprogram on O&M (formulate a framework of here O&M system, support district local government to draw up ordinances for the pilot subprogram on O&M (formulate a framework of here O&M system, support district local government of draw up ordinances for the pilot subprogram on O&M (formulate a framework of here O&M system, support districts to ended the ranged work plans.  2-5 Support the target stricts to formulate the am ual work plans and rapid of the ranged districts to form HPMA.  2-6 Support the target districts to form the management of HPMAs and HPMAs.  2-7 Pologet Team undertakes rehabilitation in the target districts.  2-8 Support the target districts to form the management of HPMAs and HPMAs.  2-9 Support the target district to imp kment M&E of HPMAs advisites.  2-11 Support the pilot district to imp kment M&E of HPMAs advisites.  2-12 Support the pilot district to imp kment Mere Pros	The Japaness sile  1. Personnel:  - Chief A dvisor/Rur al Water Supply/Organization al Management  - O & M of Rural Water Supply Facilities (Hand pump)  - Rehabilitation of Rural Water Supply Facilities (Hand pump)/Construction Supervision  - Hydrogeology  - Office and Sanitation  - O & M of Rural Water Supply Facilities (Priped water supply) / Project Condination  - Other experts if necessary  2. Equipment: Office equipment, two vehicles, tool kits, and others  3. Training in Japan and/or a for decountry  4. Project activities fee	The Ugandan side  1. Allocation of counterparts and all ministrative perso mel  Project Director  Project Manager  Counterparts  2. Equipment and materials for administration of the Project  Rampala and the target districts  Working space for JIC A experts in Kampala and the target districts  Other necessary facilities, out pment and materials for administration of the Project  4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)  5. Runn ing expenses necessary for the implementation of the Project  5. Runn ing expenses necessary for the implementation of the Project	

# ■The budget for the Project to be borne by the Ug and an side is Pro-Conditions 3-1 Support the target districts to formulate the WSC training program [Activities for Output 3]

secured

3-3 Support the target districts to implement monitoring and evaluation (M&E) 3-4 Support the pilot district to implement regeneration of WSCs in the pilot of WSCs activities

3-2 Support the target districts to implement capacity development of WSCs

3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram. subprogram.

3-6 Su pport WSCs to implement M&E of the pilot subprogram. 3-7 Su pport the target districts to take corrective acts ns based on the results of

customize of handpump facility resistant to poor water quality, supervision of construction and in stallation of handpumps, etc.) to RWSSD and DWOs 4-1 Formulate training program (e.g. steps and techniques for borch old siting, [Activities for Out put 4]

4-2 Implement the training program to RWSSD and DWOs.
4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.

4-4 Implement M& R of supervision activities for borehole drilling, construction, and rehabilitation.

# [Activities for Out put 5]

5-1 Project Team selects target villages and schools for CLTS sensitivation and target domo sites for latrine construction in Mubende.

5-2 Project Team makes a roll-out program and coordinates with Sub-county

5-3 Project Team conducts a baseline survey at selected sites.
5-4 Project Team conducts CL/IS sensitization (triggering to monitoring) and latrine construction demos.

5-5 Project Team compiles lessons learnt including categorized approaches for behavior change and demo latrine designs as documents from the implemented interventions.

# [Activities for Out put 6]

6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2~5

6-2 Review and propose revision of the existing hand books and training manuals regarding O&M based on the activities of Outputs 2~5

6-3 Organize learning platforms to disseminate go od practices and besons learned obtained at the activity 6-1 6-4 Share good practices and lessons bearned from the Project with stakeholders in the water and sanitation sector

budgetary stepsofUgandan side by the Minutes of Meeting dated Dec. MWI! and the Project Team have Assues and Countermeasures> 6, 201 6 witnessed by JICA. made an agreement on the

Bank account for the project was opened (8th September 2017).

project funds to the project account Allocation and disbursement of is ex œuted on 18th October.

Project Monitoring Sheet II(Revision of Plan of Operation)

The Start of Organizational Minispenent Annual Minispenent M	INPUTS	2015 2016 2017 2018 2018 2018 2018 2018 2018 2018 2018	201
Cheir Advisor / Bural Water S uptly / Organiza: ional Management Tree Chief Advisor / Bural Water S uptly / Organiza: ional Management Tree Chief Advisor / Operation and Maintenance of Rural Water Supply Sechabilitation of Rural Water Supply 'acilities I/Construction supervision 1 Sehabilitation of Rural Water Supply 'acilities I/Construction supervision 2 Sehabilitation of Rural Water Supply 'acilities I/Construction supervision 1 Sehabilitation of Rural Water Supply 'acilities I/Construction supervision 1 Sehabilitation of Rural Water Supply 'acilities I/Construction supervision  Lydrogeology 2 Sepanizational Analysis 1 / Monitoring & Evaluation 2 Seciety 1 / Organizational Analysis 2 / Monitoring & Evaluation 2 Seciety 2 / Putle Chelations / Financial Management / Project Coordinator Seciety 2 / Putle Chelations / Financial Management / Project Coordinator  The Water Supply / Collaboration  The Water Supply / Collaboration  The Management of distribution of the Supply of Indiantenance Tods for Rural Mater Supply  Seciety 2 / Putle Chelations / Financial Management / Project Coordinator  The Water Supply / Collaboration  The Management / Analysis Kit  Special Management / Analysis Kit  The Management / Manag			-11
Advisor / Rural Water Supity / Organizational Management Advisor / Pural Water Supity / Organizational Management Advisor / Pural Water Supity / Organizational Management Advisor / Operation and Maintenance of Rural Water Supity Best Sultation of Rural Water Supply actitities 2/Construction supervision 2 geology 2 geology 2 geology 2 Be and Sanitation 2 / Organizational Analysis 1 / Monitoring and ation 1 Sys km Waragement 1 Waragement 1 Wy 1 / Organizational Analysis 2 / Monitoring & Evaluation 2 Sys km Waragement 1 Wy 1 / Organizational Management / Project Coordinator by 2 / Putl or Relations / Firancial Management / Project Coordinator by 2 / Putl or Relations / Firancial Management / Project Coordinator water Supply / Octaboration Cuality Analysis Kit tion and Maintenance Tods for Rural Water Supply Dumps Japan or third oo unity Itaining	oert.		
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Shelf Advisor / Operation and Maintenance of Rural Water Supply Selfites 1/Construction supervision 1 of tation of Rural Water Supply Selfites 2/Construction supervision 1 geology 1 geology 2 geol	ChiefAdvisor/RuralWaterSupdy/Organizational Management	Plan Actual	
olitation of Rural Water Supply Scilities 2 Construction supervision 1 geology 1 geology 2 geology 2 ne and Sanitation 1 ne and Sanitation 1 Naragement 1 Sys km Waragement 1 by 1 Organizational Analysis 1 / Monitoring and 2 / Rural Water Supply Facilities 2 / Labor Management 2 / Society 2 of Rural Water Supply Facilities 2 / Labor Management 2 / Society 2 of Rural Water Supply Facilities 2 / Labor Management 2 / Society 2 of Rural Water Supply Facilities 2 / Labor Management 2 / Society 2 of Rural Water Supply Facilities 2 / Labor Management Project Coordinator by 2 / Project Coordinator Water Supply / Collaboration Couality Analysis Kit tion and Maintenance Tods for Rural Water Supply Japan or third oo unity Itaining	We Chief Advisor / Operation and Maintenance of Rural Water Supply Facilities	Plan	
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geology 2  ne and Sanitation 1  ne and Sanitation 1  ne and Sanitation 2 / Organizational Analysis 1 / Monitoring anc  ation 1  Sys km  Waregement 1  y 1 / Organizational Analysis 2 / Monitoring & Evaluation 2  of Ru-allwater Supply Facilities 2 / Labor Management 2 / Society 2  of Ru-allwater Supply Facilities 2 / Labor Management 2 / Society 2  of Ru-allwater Supply Facilities 2 / Labor Management 2 / Society 2  of Ru-allwater Supply Facilities 2 / Labor Management 2 / Society 2  of Ru-allwater Supply / Collaboration  tion and Maintenance Tods & Pr Rural Mater Supply  training  Training	Hydrogeology 1	Plar Actual	
geology 2 ne and Sanitation 1 ne and Sanitation 1 Naragement 1 Naragement 1 Ny 1 Organizational Analysis 1 / Monitoring and System Naragement 1 Ny 1 Organizational Analysis 2 / Monitoring & Evaluation 2 of Ru-al Water Supply Facilities 2 / Labor Management 2 / Society 2 of Ru-al Water Supply Facilities 2 / Labor Management 2 / Society 2 of Ru-al Water Supply Facilities 2 / Labor Management 2 / Society 2 of Ru-al Water Supply Facilities 2 / Labor Management 2 / Society 2 of Ru-al Water Supply Collaboration Couality Analysis Kit tion and Maintenance Tods for Rural Water Supply Dumps Japan or third oo untry Itaining	Hydrogeology 2	Plan Actual	
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or Rumal Water Supply	Water Quality Analysis Kit	Plan Actual	
	Operation and Maintenance Tods for Runal Water Supply	Plan Actual	
	Hardpumps	Plan Actual	
	ining in Japan or third country		
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	country Training		
	Training for Supervison	Plan.	

	O'LI HALLOY	Plan/ 2	2015		2075		2017			2018		2019	
	AC II VII JES	Actual 10 11	12 1	2 3 4	7 8 6	10 11 12 1 2 3	7 8 7 8	9 10 11 12	1 2 3 1	5 6 7 8 9	g 10 11 72	, 2 3 4	5 6 7 8
Ou th	Output 1: Strabegy for capacily developmentin O&M of ruralwaters upplyfacilites and im	ır supply f	ad∥ifies ar	nd imp rove	ament of H&S	condition is formulated	ated.						
7	Set up a Working Group (WG) to discuss the framework of O&M system of rural water supply facilities and improvement of sanitation condition	Plan Actual											
7	Review existing policy framework and laws regarding O&IV ofrural water supply and saritation to clairly responsibilities and challenges of stakeholdes.	Plan								+			
ŗ	Conductbaseline surveys in the larget of stricts	Plan Actual											
7	Share firdings of good practices and lessons learn; of rural water supply and plan sanitation at the WC and pepare a report of the present situation and Actual process.	Plan Actual				= =							
4	Formulate a project approach for capacity development of relevaninstitutions based on the results of activities 1-2-1-4	Plan Actual											
<b>1</b>	Formulate PDM(ver2) and PO(ver2)	Plan Actual											
Ou th	Ou tout 2: O&M supportsystem of rural water supply facilities in the public and private se	he public	and private		ctors is strengthened in the target districts	n the target distr	icts.		3 33				
1-2	Formulate training programs on O&M planning to relevant institutions	Plan Actual								111111111111111111111111111111111111111			
2-2	Support RWISSD and the target districts to conduct training for capacity development in O& IV support system for rural water supply facilities.	Plan Actual						1 11 11 11 11 11 11 11 11 11 11 11 11 1					
7	Support RWSSD and the pibit district to conduct preparation of the pilo subprogram on D&M (formulate a framework of new O&M system, support	Plan											
Î .	district local government to draw up ordinances for the pilot subprogram, and select the target sub-counties and the target WSCs,	Actual											
2-4	Support RWSSD and the pilot district to implement the pilot subprogramon Q&M (establish waler sewice provider and support the management &	Plan											
2.5	operation of the provider. Support RWSED and the pilbt district to implement M&E of the pilbt	Plan											
3,5	Surprogation Code.  Surport the targets frice to formulate the annual work plans and implement Plan avaiting or worked allowing and make the plants and the	Actual											
į,	advises (e.g. ordenote daying)s and remainated, water quality analysis, etc.) based on the annual work plans	Actual											
2.7	Project team undertakes retrabilitation in the target districts.	Plan Actual											
2.8	Support the target districts to form HPMA.	Plan Actual						= -					
2.9	Support the target districts to conduct training to HPMs and HPMAs.	Plan			***************************************				-				
2-10	Support the trained HPMs to conduct diagnosis and repair on rural wate supply farilties.	Plan Actual											
2-11	Support the plot district to guide the management of HPMAs to enhance its function.	Plan Actual					Allowed to the control of the contro						
2-12	Support the plot district to implement MRE of HPMAs activities.	Plan											
2-13		Plan Actua	Complete Management	the second second	the control of control of control of control of	an an alcoust we are obtained to be seen	are the constraint of the cons	trons and an area area.	A) objective or company of the compa	and the state of t	The second second second		
2-14	Hold a periodic meeting with a ITSUs to share progress, ideas, and issues of Plan on-going activities.	Plan Actua					# · · · · · · · · · · · · · · · · · · ·						

	Direct   2015   2016
ACTIVITIES	10   11   12   3   1   5   6   7   8   9   10   11   2   1   2   3   4   5   8   9   10   11   12   7   8   9   10   11   12   7   8   9   10   11   12   3   1   5   6   7   8   9   10   11   12   7   8   9   9   11   12   13   13   13   13   13   13
Output 3: Operational capacity of Water and Sanitation Committee (WSC) is	e (WSC) is strengthened in the target districts.
3-1 Support the target districts to formulate the WSC training program	Plan Actual
3.2 Support the target districts to implement capacity development of WSCs	Plan Actual
3.3 Support the targetd is fricts to implement monitoring and evaluation (IMRE) o WSCs activities	Plan
Support the target districts to implement regeneration of WSCs in the pilo subprogram.	Plan
3-5 Support the target districts to implement awareness campaign to water uses Plan in the plot subprogram.	Plan
3-6 Support WSCs to implement M& E of the pilot subprogram.	Plan
Support the larget districts to take corrective actions based on the results o MR $\Xi$	Plan
Ou put 4: Capacity to supervise development of rural water supply facilities is strengther	Jy facilities is strengthened.
Formulate triain in program (e.g., steps and techniques for hordhole sting customize of hand pump facility resistent to poor water quality, supervision of construction and installation of hand pumps, etc.) to RMSS 2 and DWOs	Plan Actual
42 In Slement the fraining program to RWSSD and DWOs.	Plan
4.3 Support RWSSD and the target districts to implement supervision of the property of the construction and rehability on	Plan
4.4 Im Jean-or M.B.E of supervision ad Miles for borefole diffing, construction and repaid from the supervision and miles of the sup	Plan
Output 5: H&S in the pilot communities is improved.	
Froick Team solocis larget villages and schools for CLTS scristifization are larget demo sites for latine construction in Mubends	Plan
Project Team makes a rotout program and coordinates with Sub-county staff.	Pian Adual
6-3 Project Team conducts a baseline survey at selected siles,	Plan Actual
Project Team conducts CLTS sensitization (triggering to monitoring) and but ine construction demos	Plan Actual
Project Team com ples lessons learnt induding categorized approaches fo 6-5 behavior change and demo latrine designs as documents from the implemented interventions.	Plann
Output 6: Good practices and lessons learnt in the Project are shared	ared widely with stakeholders in the water and sanitation sector.
6-1 Summaize good practices and lessons leamt from the activities related to Outputs 2~5	Plan
Review and proces revision of the existing hand books and training manuals regarding C&M based on the activities of Outputs 2-5	Plan Actual
essons	Plan
Share good practices and lessons learned from the Project with stakeholder: Plan	Plan
III LIIG WAG allu sallitatoli seutu.	

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### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

**Version of the Sheet:** Ver. 7 (December 2019)

Name: Joseph Oriono Eyatu

Title: Project Director

Name: Kazumi Matsuda

Title: Chief Advisor

Submission Date: December 2019

### I. Summary

### 1 Progress

### 1-1 Progress of Inputs

Inputs	Plan as of November 2019	Actual as of November 2019
Experts	Input from Japan	Input from Japan
	Total: 120.39MM/120.39MM (100%)	Total: 120.39MM/120.39MM (100%)
	Note: Before extension phase	Note: Before extension phase
	I. Short Term Experts as follows:	I. Short Term Experts as follows:
	1. Chief Advisor/Rural Water Supply/	1. Chief Advisor/Rural Water Supply/
	Organizational Management	Organizational Management
	(18.47MM)	(18.47MM)
	2. Vice Chief Advisor/Operation and	2. Vice Chief Advisor/Operation and
	Maintenance of Rural Water Supply	Maintenance of Rural Water Supply
	Facilities 1 (11.83MM)	Facilities 1 (11.83MM)
	3. Rehabilitation of Rural Water Supply	3. Rehabilitation of Rural Water Supply
	facilities 1/Construction supervision 1	facilities 1/Construction supervision 1
	(0.87MM)	(0.87MM)
	4. Hydrogeology 1 (10.00MM)	4. Hydrogeology 1 (10.00MM)
	5. Hydrogeology 2 (8.33MM)	5. Hydrogeology 2 (8.33MM)
	6. Hygiene and Sanitation 1 (11.03MM)	6. Hygiene and Sanitation 1 (11.03MM)
	7. Hygiene and Sanitation	7. Hygiene and Sanitation
	2/Organizational Analysis	2/Organizational Analysis
	1/Monitoring and Evaluation 1	1/Monitoring and Evaluation 1
	(9.00MM)	(9.00MM)
	8. Audit System (4.20M/M)	8. Audit System (4.20M/M)
	9. Labor Management 1 (1.50M/M)	9. Labor Management 1 (1.50M/M)
	10. Society 1/ Organizational Analysis 2/	10. Society 1/ Organizational Analysis 2/
	Monitoring & Evaluation 2	Monitoring & Evaluation 2

(12.50MM)

- Operation and Maintenance of Rural Water Supply Facilities 2 / Labor Management / Society 2 (9.67MM)
- II. Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)

### **Input from Japan**

Total: 0MM/16.80MM (0%)

Note: In extension phase

Short Term Experts as follows:

- Chief Advisor/ Water Supply Policy (5.00M/M)
- 2. Labor Management 1((2.30M/M)
- 3. Rural Water Supply (3.50M/M)
- Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (3.00M/M)
- Organizational Management 2 (3.00M/M)

### Input from Uganda

- Mutiibwa Robert (Principal Water Officer), Project Manager
- Bisoborwa Paul (Social Scientist)
   Liaison Officer Point water sources
- 3. Martha Naigaga (EHO)
- 4. Marcia Tusiime (EHO)
- Nakasagga Jackline (Social Scientist-Trainee), Administrator the of Service Centre
- Kajumba Grace (Graduate Trainee), Head Technical Operations of the Service Centre
- Eng. Bateganya David (Senior Engineer)
   Liaison Officer
- 8. Katumba Willy (Borehole maintenance superintendent)
- 9. Kwagalakwe Asenath (Graduate Trainee)
- Mugeiga Kato (Social Scientist)
   Liaison Officer Piped water schemes

(12.50MM)

- Operation and Maintenance of Rural Water Supply Facilities 2 / Labor Management / Society 2 (9.67MM)
- II. Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)

### **Input from Japan**

Total: 0MM/16.80MM (0%)

Note: In extension phase

Short Term Experts as follows:

- Chief Advisor/ Water Supply Policy (0.00M/M)
- 2. Labor Management 1((0.00M/M)
- 3. Rural Water Supply (0.00M/M)
- Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (0.00M/M)
- 5. Organizational Management 2 (0.00M/M)

### Input from Uganda

- Mutiibwa Robert (Principal Water Officer), Project Manager
- Bisoborwa Paul (Social Scientist)
   Liaison Officer Point water sources
- 3. Martha Naigaga (EHO)
- 4. Marcia Tusiime (EHO)
- Nakasagga Jackline (Social Scientist-Trainee), Administrator the of Service Centre
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- Kwagalakwe Asenath (Graduate Trainee)
- 10. Mugeiga Kato (Social Scientist)Liaison Officer Piped water schemes

	11 Alemai Madan (C. 1. ) To	11 Alamai Marian (C. 1 / T. )
	11. Alamai Marion (Graduate Trainee ~	11. Alamai Marion (Graduate Trainee ~
	Jan. 2017)	Jan. 2017)
	12. Mukamwiza Hope (Trainee	12. Mukamwiza Hope (Trainee
	Accountant), Accountant of the	Accountant), Accountant of the
	Service Centre	Service Centre
Equipment	1st phase	1st phase
	1. Water Quality Analysis Kit:	1. Procured
	- Spectrophotometer: 1 set	
	- Pack test (Iron) (50 pc.): 3 sets	
	- E-coli test paper (100 pc.): 3 sets	
	- Bacteria (100 pc.): 3 sets	
	2. Operation and Maintenance Tools for	2. Procured
	Rural Water Supply:	
	- Tool box for U2 hand pump: 32 sets	
	- Chain block and tripod: 4 sets	
	*	3. Procured
	1	
	4. Copy machines: 2 sets	4. Procured
	5. Projector: 1 set	5. Procured
	6. Vehicles: 1 station wagon and 1	6. Delivered to GoU by JICA
	pickup truck	
	2 <sup>nd</sup> phase	2 <sup>nd</sup> phase
	1. Water Quality Analysis material	1. Procured
	- Pack test (Nitrate) (150 pc.): 4 sets	
	- Pack test (Nitrate) (50 pc.): 2 sets	
	-E-coli test paper (100 pc.): 7 sets	
	2. Hand pump (U2): 100 sets	2. Procured
		- Hand pump (U2): 84 sets
		- Hand pump (U2 extra deep): 33 sets
		- Hand pump (U3 Modified): 1 sets
		Trana pump (05 Woulfied). 1 sets
Training	Training in Japan and/or a third country	To be planned
Ugandan Side	1. Allocation of counterparts and	1. Allocated including C/P of H&S
Operational	administrative personnel (Project	
Expenses	Director, Project Manager and	
_	Counterparts)	
	2. Supply of replacement of machinery,	2. Replacement of vehicle tires and
	equipment, instruments, vehicles,	vehicle routine service will be
	tools, spare parts and any other	disbursed from project account.
		dispuised from project account.
	materials necessary for the	
	implementation of the Project other	
	than the equipment provided by JICA.	
	3. Allocation of office space and	3. Office space and facilities in Kampala

	facilities (office space for JICA		and in Mubende DWO were allocated.
	experts in Kampala and the target		
	districts, and other necessary facilities,		
	equipment and materials for		
	administration of the Project)		
4.	Counterpart-related costs (including	4.	The costs will be disbursed from the
	salary, allowance and traveling cost		project account.
	for counterparts)		
5.	Running expenses necessary for the	5.	The expenses will be disbursed from
	implementation of the Project		the project account.

# 1-2 Progress of Activities

- **Output 1**: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated
  - Baseline survey was implemented.
  - Capacity development strategy was established based on the activities.
  - Progress report (No. 1) was submitted (June 2016).
  - Activities of Output 1 were completed in the 1<sup>st</sup> phase.
- **Output 2A**: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende and Kassanda districts
    - (Activity 2A-1) Formulation of training programs and preparation of pilot subprogram of O&M is completed
    - (Activity 2A-3) a preparation to implement a pilot subprogram on O&M are completed (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot subprogram, and select the target sub-counties and the target WSCs).
    - (Activity 2A-2, 2A-4, and 2A-5) completed.
    - (Activity 2A-7) 96 boreholes were rehabilitated in 9 sub counties in Mubende district and 9 sub counties in Kassanda district.
    - (Activity 2A-9) 36 HPMs (Hand Pump Mechanics) were trained in 18 sub counties in Mubende and Kassanda districts.
    - (Activity 2A-10) The above HPMs were trained through rehabilitation works.
    - (Activity 2A-11) The service center is ordering HPMA (Hand Pump Mechanic Association) to repair hand pumps when customer communities report a defect.
    - (Activity 2A-12) A working meeting was organized for HPMAs to coordinate activities in April 2019.
    - (Activity 2A-13) A supplier of spare parts and the project concluded a supply contract in Mubende district
    - (Activity 2A-14) Project activities and plans were shared and discussed in a TSU meeting in May 2019 in Kampala.
      - From the activity 2A-15 to the activity 2A-19 are planned for the extension phase of the 2nd phase and the 3rd phase.

- (2) Activities for control districts
  - (Activity 2A-1) A training program was formulated to strengthen CBMS (Community Based Maintenance System)
  - (Activity 2A-2) ToT training was conducted for district staff about WSC (Water Sanitation Committee) training and sensitization of water users.
  - (Activity 2A-6) Well diagnosis work was conducted for selected wells for rehabilitation.
  - (Activity 2A-8) HPMA in Kiboga district was re-energized, which was not functioning during the baseline survey.
  - (Activity 2A-10) MoU was signed between HPMA and district local governments regarding the management of the repair toolboxes which were procured in the 1st phase of the project.
  - (Activity 2A-10) MoU was conclude between HPMA and the local governments regarding report system for handpump repair.
- **Output 2B**: A new O&M support system of rural water supply facilities related to user fee collection is formulated.
  - From the activity 2B-1 to the activity 2B-5 are planned for the extension phase.
- **Output 3**: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende district
    - (Activity 3-1) Formulation of training materials and training program is completed
    - (Activities 3-4, 3-5, and 3-6) Training using above materials are completed in 18 sub-counties in Mubende and Kassanda districts.
  - (2) Activities for control districts
    - (Activity 3-1) WSC training program was implemented
    - (Activity 3-2) Training for relevant district staff and sub-county extension workers in target districts were implemented.
- Output 4: Capacity to supervise development of rural water supply facilities is strengthened
  - (Activity 4-1) Training materials were almost finalized through discussion between MWE's hydrogeologists and the Japanese expert team.
  - (Activity 4-2) The training program implementation method (venue, participants, number of people) is not fixed.
  - (Activity 4-3) Project Team conducted the site inspection of rehabilitated facilities with MWE staff, DWO staff, and Sub county staff in Mubende and Kassanda districts.
  - (Activity 4-4) Project Team confirmed the all detected flaws were improved.
- **Output 5**: Proposed ODF practices in the selected communities implemented.
  - (Activity 5-1) Project Team selected 64 target villages in Mubende and Kassanda districts. (Activity 5-2) Project team with sub county health team conducted stakeholder meeting with sub county authority involving parish level teams to share about project and reflect on relationship and roles per stakeholder.
  - (Activity 5-3) Project team conducted baseline survey for selected 64 villages. And in parallel MWE conducted baseline survey. The number of villages of baseline is 150 villages in total.
  - (Activity 5-4) Project Team completed CLTS sensitization (triggering to monitoring) and

latrine construction demos.

- (Activity 5-5) Lessons learnt were compiled and produced as a booklet including categorized approaches for behavior change and demo latrine designs.
- **Output 6**: Good practices, lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.
  - (Activity 6-4) Project team participated in the World Water Day in Entebbe on March 22nd 2019, which was part of Uganda Water and Environment Week.

The detail of each activity is shown in the annex 1.

# 1-3 Achievement of Output

\*OT: On time, SFL: Schedule for later, DL: Delay

Output/Indicators	Major Results	Status*				
Output 1:Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.						
it was decided to test-run the system in Mu subprogram.	irectly manage O&M of water supply facilities (abende (later divided into Mubende and Kassand	da) as a pilot				
<ul> <li>Project approach for capacity development on O&amp;M of rural water facilities and</li> </ul>	- Necessary documents were prepared as below;	Achieved				
improvement of H&S condition is formulated as document.	a) Progress Report (No.1) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (June 2016) b) PDM (ver.2) (approved at 3 <sup>rd</sup> JCC on 25 August 2016) c) Technical Note on the Operation and Maintenance System of Rural Water Supply for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (2 September 2016) d) Minutes of Meeting on the Discussion of the Second Stage Activities for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (6 December 2016)					

Output 2A: O&M support system of rural wa	e) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	e sectors is
<ul> <li>strengthened in the target districts.</li> <li>100 boreholes are enrolled to the new O&amp;M by the operation of the Service Centre. The As a result, the water users can always use strengthened.</li> </ul>	system in Mubende and Kassanda, and they are downtime of the enrolled sources is significantly safe water.  Kiboga, Mpigi and Butambala with MWE's but of water users and WSC	maintained y improved.
- Training program on O&M of rural water supply is formulated.	<ul> <li>Training program on O&amp;M of rural water supply has been formulated as below;</li> <li>a) Scope of Works for Training of Trainers on O&amp;M of Rural Water Supply (August 2016)</li> <li>b) Work Plan (2<sup>nd</sup> Edition) for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)</li> <li>c) Formulation of materials for ToT for relevant district staff and sub-county staff in control districts. (April 2017)</li> </ul>	Achieved
- More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.	<ul> <li>The ToT for sensitization of water users and WSC were implemented to District staff in control districts;</li> <li>a) Mpigi: 3 district staff (19-20 April 2017)</li> <li>b) Kiboga: 5 district staff (24-25 April 2017)</li> <li>c) Butambala: 7 district staff (3-4 May 2017)</li> <li>The ToT for Mubende and Kassanda district staff (8-9 Feb. 2018)</li> <li>a) Mubende-3 staff (DWO, CAO, ACAO)</li> </ul>	Achieved (45 people in total)

		h) Kihaga 2 stoff (ADWO ACAO)	
		b) Kiboga-2 staff (ADWO, ACAO)	
		c) Mpigi-1 staff (DWO)	
		d) Butambala-2 staff (DWO, ADWO)	
		e) 1 Public Health Specialist (TSU)	
	-	As ToT for MWE, the review meeting	
		for MWE (Ministry of Water and	
		Environment), TSU (Technical Support	
		Unit), and Mubende district were held	
		from 11-12 September 2018. The	
		participants were:	
		a) 10 MWE staff,	
		b) 2 TSU staff,	
		c) 9 Mubende district staff	
- The water service provider (the Service	-	The service center started the service for	Achieved
Centre) is established and functioning		Kasambya and Kibalinga sub counties in	
under the pilot subprogram.		April 2018.	
	-	The service center has expanded the	
		service area to cover 8 Sub counties in	
		Mubende district as of October 2018.	
	_	The service center caters for all 18 sub	
		counties in Mubende and Kassanda	
		districts as of May 2019.	
- O&M activities are implemented based on	-	Borehole diagnosis: 896 sites in 18 Sub	On-going
the annual workplans.		counties of Mubende and Kassanda	
-		districts, 41 sites in Kiboga district, 60	
		sites in Mpigi district, and 31 sites in	
		Butambala were completed.	
	_	Rehabilitation: Project supports 96	
		rehabilitation in Mubende and Kassanda	
		districts. MWE supports the	
		rehabilitation in other three districts. Air	
		lift works were completed in three	
		districts. But pump installation works	
		were delayed because of funding. 17	
		installations were completed in Kiboga	
		(11th December 2019)	
	_	Water Quality Analysis: Project	
		provided the water quality test kit in the	
		1st phase of the Project. Project team	
		learned the usage (January 2018). It	
		remains to establish an equipment rental	
		system between MWE and DWO.	

_	At least 24 boreholes are rehabilitated in target districts.	-	Borehole rehabilitation is completed for 96 sites including apron and fence. (July 2019)	Achieved
-	At least two Hand Pump Mechanics (HPMs) are trained on site in each subcounty.	-	Trainings for 2 HPMs from each sub county (70 HPMs in total) were conducted in Mubende, Kassanda, Kiboga, Mpigi and Butambala in February 2018, November 2018, December 2018 and January 2019).	Achieved
-	HPMAs in the target districts undertake repairs of handpumps.	-	In control districts, MoUs between HPMAs and district local governments were signed regarding the management of the repair toolboxes provided by the project (April – May 2017).  In control districts, MoUs between HPMAs and the local governments regarding report system of handpump repair were signed (May 2017).  Mubende HPMA undertakes repair of hand pumps through the Service Center. Facilities to be repaired by HPMA are under rehabilitation by MWE. HPMS will start repair work after the rehabilitation. About the undertakings of Kiboga, Mpigi, and Butambala, HPMAs will be surveyed in coming endline survey.	Achieved On going
-	Activities of the service centre monitored at least 5 times during the extension period	-	1st monitoring will be start in January 2020.	SFL
_	Submission of monthly progress report and quarterly performance report on key core activities of the service centre to Joint Management Committee (JMC).	-	1st monthly progress report will be submitted in January 2020. 1st quarterly performance report will be submitted in March 2020.	SFL
Οι	<b>1tput 2B</b> : A new O&M support system of run formulated.	ral v	water supply facilities related to user fee col	lection is
-	Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.	-	I will be ready in June 2020.	SFL

- WSCs and caretakers are trained for around 100 sources under DDMS and most of them are playing their roles in O&M of rural water supply facilities. Their work helps to keep the water source good condition.
- 45 WSCs in total were trained in Kiboga, Mpigi and Butambala but rehabilitation work has not been completed yet for them to start maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.
- Through the activities of JICA expert on piped scheme, transparency of the contract documents and reports has been maintained, and O&M fee collection has been improved. 6 schemes introduced management contract with the scheme operator (SO). And 4 schemes of them opened the exclusive bank account, then started to save a specific amount of money around 15 to 50 % of revenue a month.

	account, then started to save a specific amount of money – around 15 to 50 % of revenue a month.			
-	More than 85% of WSCs which are trained	_	The ToT for sensitization for water users	Not
	in the Project are functional.		and WSC were implemented to Sub-	Achieved
	<del>-</del>		county officers in control districts.	
			a) Mpigi for 19 staff (19-20 April	
			2017)	
			b) Kiboga for 19 staff (24-25 April	
			2017)	
			c) Butambala 15 staff (3-4 May 2017)	
			The extension workers that have been	
			trained will be supported to train the	
			WSC in their communities	
		_	Functionality of trained WSCs (Sep.	
			2019)	
			a) DDMS (100/100)	
			b) CBMS (7/45)	
			Total (107/145) 73%	
-	O&M of piped water supply facilities is	-	The O&M of following 6 piped water	Achieved
	improved where activities are		supply facilities were improved through	
	implemented.		project activity (September 2017);	
			a) Bukomero T/C (Kiboga District):	
			opened bank account and started to	
			save money	
			b) Kyanamugera RGC (Mubende	
			District): made management	
			contract with SO, opened bank	
			account and save more than 500	
			USD	
			c) Koch-Goma, Kitgum-Matidi	
			(Acholi Sub Region): made	
			management contract with SO,	
			opened bank account and started to	
			save money	

	d) Awere, Corner-Kilak (Acholi Sub Region): made management contract with SO	
Output 4: Capacity to supervise development	of rural water supply facilities is strengthened.	
bidding and supervision. The training will	ne capacity gap of MWE and DWO in planning be implemented in the coming project period.  In and completion inspections, which helped to in	
More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.	<ul> <li>Capacity gaps have been identified by conducting institutional analysis.</li> <li>Training plan is now under preparation.</li> <li>The training will be held around April 2020 in Uganda.</li> </ul>	On-going
Output 5: Proposed ODF practices in the sele	cted communities implemented.	
-	y latrine construction demonstrations, sanitation hese were compiled in the Handbook as a delive	_
- Proposed methodology to effectively	- Activities are implementing in 64	Achieved
promote ODF are presented and tested.	villages in Mubende district.  a) 18 Sub county meetings are held. b) Baseline survey was completed. c) Triggering was done in 64 villages. d) 1st follow up activities were held in 42 villages. e) 2nd follow up activities were held in 26 villages. f) Sanitation marketing was held in 7 villages. (October 2019) - Activities were completed. (March 2019)	
The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	<ul> <li>A handbook was produced and approved by MWE including following contents;</li> <li>a) Stakeholder Meeting including 1 good practice and 1 lesson learnt.</li> <li>b) Baseline Survey including 2 good practices.</li> <li>c) Triggering and Sensitization         <ul> <li>Activity including 2 good practices and 1 lesson learnt.</li> <li>d) Sanitation Committee Training and the Continuous Activities including 1 good practice and 1 lesson learnt.</li> </ul> </li> </ul>	Achieved

e) Construction of Demonstrations
including 1 good practice and 1
lesson learnt
f) Sanitation Marketing including 1
good practice and 1 lesson learnt
g) School Led Total Sanitation include
1 good practice
h) Follow up MANDONA (FUM)
including 3 good practices and 1
lesson learnt
- This handbook is expected to deliver in
coming workshops for share good
practice and lesson learnt.

**Output 6**: Good practices, lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.

- Project Team participated in events to disseminate the Project activities and mid-term achievement.
- Good practices and lessons learnt in the Project will be compiled and be shared.

-	Lessons learnd and good practice is	_	They will be documented in Progress	SFL
	documented.		report (No.3)	
-	Recommendations on proposed revisions	-	They will be proposed in Progress report	SFL
	of existing hand books and manuals are		(No.3)	
	made.			
-	Documented good practice and proposed	-	They are shared in coming workshops	SFL
	revisions are shared.			
-	At least two times of learning	-	NGO Meeting in Mubende (16th May	SFL
	opportunities (e.g. workshops) to		2018)	
	disseminate good practices and lessons	-	Team exhibited project activities in	
	learned are organized.		National Hand Washing Day event (15th	
			October 2018).	
		-	Team exhibited project activities in	
			World Water Day event in Entebbe on	
			March 22nd 2019.	
		-	Two workshops will be organized in	
			June and August 2020	

# 1-4 Achievement of the Project Purpose

- <u>Indicator No.1</u>: Recent functionality of rural water supply facilities (deep boreholes) in the target districts is 83.9%. The target is 85%. In order to achieve the target (85%), it is necessary to improve the functionality of Kiboga, Mpigi and Butambala through rehabilitation works by MWE. The rehabilitation work is ongoing, then the functionality will be improved.

District	Functioning	Functionality		
Mubende	217	9	226	96.0%
Kassanda	140	11	151	92.7%
Kiboga	116	29	145	80.0%
Mpigi	66	44	110	60.0%
Butambala	60	22	82	73.2%
	599	115	714	83.9%

<sup>\*</sup>Uganda Water Supply ATLAS, 11 December 2019

- Indicator No.2: 89 WSCs out of 100 monitored WSCs (89.0%) are collecting water charges in recent 6 months in Mubende and Kassanda districts under DDMS. For Kiboga, Mpigi, and Butambala districts, 205 WSCs out of 364 WSCs (56.3%) of deep boreholes collect money according ATLAS. WSCs in CBMS is not achieved. After the above rehabilitation work, the WSCs are expected to motivate collecting water user charge.
- <u>Indicator No.3</u>: The down time of rural water supply facility in the monitored communities in Mubende and Kassanda districts become 3 days or less (mode is 1 day). But the down time in Kiboga, Mpigi, and Butambala is not monitored, it will be confirmed by the end line survey. After the above rehabilitation work, the condition to measure downtime will be ready.
- <u>Indicator No.4</u>: Household access to sanitation facilities with hand washing facilities in the selected villages reached at 18.9% at the end of the intervention. The project purpose is an increase from 4.8% to 13%.
- <u>Indicator No.5</u>: Revision of the guidelines for the O&M rural water supply facilities are proposed in the coming project recommendation report.

### 1-5 Changes of Risks and Actions for Mitigation

- Allocation of required MWE budget. The Technical Note including the budget during the project extension period are approved in 7<sup>th</sup> JCC meeting.

# 1-6 Progress of Actions undertaken by JICA

- Minutes of meeting between JICA and MWE was agreed in November 2019. The duration of the Project is extended one year, so the total duration become 5 years.

#### 1-7 Progress of Actions undertaken by Gov. of Uganda

- MWE committed the Ugandan budget required to proceed project activities in the technical note which was agreed with the Japanese expert team.

# 1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

# 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

- N/A

# 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors,

## NGOs etc.)

- Wells of Life (an NGO from USA) held a meeting with MWE on 1st August, 2018. They agreed to cooperate with DDMS. It means that all wells constructed by the NGO will join DDMS. But the details are not concluded yet.
- In November 2019 there is no further development on this initiative.

# 2 Delay of Work Schedule and/or Problems (if any)

#### 2-1 Detail

- Training materials to strength capacity to supervise for development of rural water supply facilities (Output 4) are almost finalized. But the implementation training program policy which include duration, participants, venue, place, and cost burden is not agreed in the Project Team. The problem is that it is difficult to adjust the training implementation method that meets the ideal working procedure in Uganda under the constraints of the Project.

#### 2-2 Cause

- Regarding to formulate training program (activity 4-1), the start of activity was delayed because the Project Team resource were focused on other activities for Output 2, 3 and, 5. As a result, the gap analysis to develop the training program was finally started in May 2019.

#### 2-3 Action to be taken

- Based on the developed training module, the Team arranges the implementation program considering the combination of lecture and practical training.
- About the practical trainings, the Team proposes the implementation plan in Uganda.

  Note: The training includes alternative of training in Japan and/or a third country. To develop the capacity of both supervision and actual work helps to improve O&M support system mentioned in Project Purpose.

### 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

- N/A

# 3 Modification of the Project Implementation Plan

### 3-1 PO

- PO was updated. (See the attached Monitoring Sheet Form 3-3.)
- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - N/A (Same as Minutes of Meeting between JICA and MWE in November 2019).

# 4 Preparation of Gov. of Uganda toward after completion of the Project

- N/A

# Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: The Project for Operation & Main tenance for Rural Water Supply and Improved Hygiene and Sanitation

Implementing Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Environment (MWE)

Target Groups: MWE, RWSSD, District officers in charge of rural water supply and sanitation in the target districts

Period of Project: 5 years from the date when the first JICA Expert is disp atched

Project Sites. Kampala (RWSSD) and 5 Districts (Kiboga, Mubende, Kassanda, Butambala and Mpigi district)

Narrativ e Su mma ry	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
Overal Goal Operation & maintenance (O&M) policy and system of rural water supp ly facilities improved by the Central Government are adapted to wide area in Uganda	1. Functionality of rural water supply facilities in the Central Region is improved 2. Households access to latrines and hand washing facilities in the Central Region is in creased 3. Issuedguidelines are used to inform O&M policy.	1. 2. Sector Performance Report 3. Issued guideliens / proposal of policy change			
Project Purpose O&M system of rural water supply facilities and own system of rural water supply facilities and hygiene and sanitation (H&S) in the target districts, and system of the Central Government relating to O&M are improved	1. Functionality of rural water supply facilities in the target districts is increased from 81% to 85%.  2. The rate of WSC collecting water charges and conducting mainten an ec of rural water supply facility in the target districts is increased from 51% to 70%.  3. The down time of rural water supply facilities is reduced in the target districts.  4. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%.  5. Revision of the guidelines for the O&M rural water supply facilities are proposed in the recommendations.	1. Sector Performance R eport 2~4. Project documents 5. Project recommendation report	■ Policies on rural water supply are not significantly changed ■ Financial resources which are currently allocated to the target districts are not significantly decreased in Central region		
Outputs  1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated	1 Project approæh for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document	1 Project documents	Financial resources currently allocated to the target districts are not significantly decreased	■Baseline survey revealed failure of CB MS. ■ A system was proposed in which District directly manage O&M of water supply facilities (DDMS) and it was decided to test run the system in Muben de (later divided into Mubende	

Ver. 7

Deæmber 2019

Remarks		
Achievement	Kassanda) as a pilot subprogram.  100 bo reh oles are enrolled to the new O&M system in Mubende and Kassanda, and they are maintained by the op eration of the Service Centre. The do wntime of the enrolled sources is significantly improved. As a result, the water users can always use safe water.  Rehabilitation of bo reholes are on-going in Kibog a, Mpigt and Butamb ala with MWE's budget.  Total 45 staff received ToT for sensitization of water users and WSC  Total 70 HPMs (2 HPMs in each sub-county) were trained.	■ WSCs and caretak ers are trained for around 10 0 sources under DDMS and mo st of them are playing their roles in O&M of rural water supp by facilities. Their work helps to keep the water source go od cond ition.  ■ 45 WSCs in total were trained in Kiboga, Mpigi and Butambala but rehabilitation work has not been completed yet for them to start
Important Assumption		
Means of Verification	2-1~7Project documents2A-8 Monitoring reports 2A-9R ecord of sub mission 2B-1 Documented Best of Practice (BoP)	3-1~2 Project documents
Objectively Verifiable Indicators	2A-1 Training program on O&M of rural water supply is formulated. 2A-2 More than 20 staffs from RWS SD and the target districts incharge of water supply and sanitation receive the ToT. 2A-2 The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 2A-4 O&M activities are implemented based on the annual workplans. 2A-5 At least 24 boreholes are rehabilitated in target districts. A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 2A-7 HPMAs in the target districts undertake repairs of handpumps. 2A-8 Activities of handpumps. 2A-8 Activities of handpumps exerce centre monitored at least 5 times during the extension period at quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC). 2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.	3-1 More than 85% of WSCs which are trained in the Project are functional. 3-2 O&M of piped water supply facilities is improved where activities are implemented.
Narrative Summary	2A. O&M support system of rural water supply facilities in the public and private sectors is streng thened in the target districts streng thened in the target districts.  2B. A new O&M support system of rural water supply facilities related to user fee collection is formulated.	3. Operational and management capacity of Water and San itation Committee (WSC) is streng thened in the target districts

Remarks		
Achievement	maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.  Through the ætivities of JICA expert on piped scheme, transparency of the contract documents and reports has been maintained, and O&M fee collection has been improved. 6 schemes introduced management contract with the scheme op erator (SO). And 4 schemes of them operator the with the scheme per account, then sperific amount of money — aro und 15 to 50% of revenue a month.	■ Train ing program was for mulated to fill the capacity gap of MWE and DWO in planning, designing, bidding and supervision. The training will be implemented in the coming project period. ■ MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise.
Important Assumption		
Means of Verification		4-1 Project documents
Objectively Verifiable Indicators		4-1 More than 12 staff's from RWSSD and the target districts in charge of rural water supply and sanitation complete the training supply and sanitation complete the training
Narrativ e Su mma ry		4. Capacity to supervise development of rural water supply facilities is strengthened

Narrativ e Summa ry	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
5. Proposed ODF practices in the selected communities implemented.	5-1 Proposed methodology to effectively promote ODF are presented and tested. 5-2 The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	5-1~2 Project documents		It contributed to ODF to arrange effectively latrine construction demonstrations, sanitation marketing and SLTS in addition to CLTS activities. These were compiled in the Handbook as a deliverable.	
6. Good practices and lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.	6-1 Lessons learnd and good practice is documented. 6-2 Recommendations on proposed revisions of existing hand books and manuals are made 6-3 Documented good plactice and proposed revisions are shared. 6-4 At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organised.	6-1∼4Proje¢ documents		■ Project Team participated in events to disseminate the Project activities and mid-term achievement.  ■ Good practices and lessons learnt in the Project will be compiled and be shared.	

In Kindle of county (W) in deuse the funework of OLAM years of the Advanced and the control of the Advanced of	Activities	Inputs	uts	Important Assumption
2A-1/Support KWSSD for preparing budget request for operation of the service center.	ities for Out put 1]  It al water supply facilities and improvement of sandation roondition  wiew existing policy framework and buy evenement of sandation roondition  wiew existing policy framework and buys regarding O&M of rural water pply and santiation to clarify responsibilities and challenges of  whole design and santiation to clarify responsibilities and challenges of  mudu of baseline surveys in the target districts  are findings of good practices and les ons keam of rural water supply and  mudu of baseline surveys in the target districts  are findings of good practices and les ons keam of rural water supply and  mudu of baseline surveys in the target districts  or mulate a project approach for capacity development of relevant  mututions based on the results of activities 1-2-1-4  mutual propertions on O&M planning to relevant institutions  support RWSSD and the pilot district to conduct preparation of the pilot  wupport RWSSD and the pilot district to conduct preparation of the pilot  by program on O&M (formulate a framework of new O&M system, support  wupport RWSSD and the pilot district to implement the pilot subprogram.  O&M (sasables hwater service provider support the management &  cett the target sub-counties and the targ of WSCs.)  support RWSSD and the pilot district to implement M&E of the pilot  by program on O&M (formulate a framework of new O&M system, support  cett the target districts to formulate the ammu all work plans and  plement activities (e.g. borehole diagnosis and rehabilitation, water quality  support the train of HPMs to conduct training to HPMs and HPMAs.  Support the trained HPMs to conduct diagnosis and repair on rural water  support the trained districts to conduct diagnosis and repair on rural water  support the trained districts to conduct diagnosis and repair on general cativities.  Support the pilot district to implement M&E of HPMs and HPMs.  Support the pilot district to implement M&E of HPMs and the pilot district.  Support of perainions related to operation of the se	The Japanese sile  1. Personnel:  - Chief Advisor/Rural Water Supply/Organ ization al Management  - O&M ofR ural Water Supply Facilities (Hand pump)  - Rehabilitation of Rural Water Supply Facilities (Hand pump)/C onstruction  - Supervision  - Hydrogeology  - Hydrogeology  - Hygiene and Sanitation  - O&M ofR ural Water Supply Facilities (Piped water supply) / Project Coordination  - Other experts if necessary  2. Equipment: Office equipment, two vehicles, tool kits, and others  3. Training in Japan and/ora third country  4. Project activities fee	The Ugandan side  1. Allocation of counterparts and ad ministrative perso mnel  - Project Director - Project Manager - Counterp arts  2. Equipment Two vehicles, equipment and materials for administration of the Project  3. Allocation of office space and facilities - Working space for JIC A experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project  4. Counterpart-related costs (including salary, allowance and traveling cost for counterp arts)  5. Runn ing expenses necessary for the implementation of the Project  6. Allocation of necessary human resources to run the service centre in target districts.	

# budgetary stepsofUgandan side by project funds to the project account the Minutes of Meeting dated Dec. The budget for the Project to be borne by the Ug and an side is MWE and the Project Team have Bank account for the project was Allocation and disbursement of Same and Countermeasures opened (8th September 2017). is ex ecuted on 18th October. 6, 2016 witnessed by JICA. made an agreement on the Pre-Conditions secured Run a trial on an incentive and for reward system for WSCs and caretakers 3-5 Support the pilot district to implement awareness campaign to water users in Run a trial on mobile money transfer in the selected project communities. 4-4 Implement M&E of supervision activities for borehole drilling, construction, 3-7 Support the target districts to take corrective actions based on the results of of construction and in stallation of hand pumps, etc.) to RWSSD and DWOs. customize of han dpump facility resistant to poor water quality, supervision 3-3 Support the target districts to implement monitoring and evaluation (M&E) 5-1 Project Team selects target villages and schools for CLTS sensitization and Compile the individual performance of 2B-1 to 2B-4 and determine the 5-5 Project Team compiles lessons learnt including categorized approaches for 4-1 Formulate training program (e.g. steps and techniques for borchole siting, 3-2 Su pport the target districts to implement capacity development of WSCs 5-3 Project Team conducts a baseline survey at selected sites. 5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and 2A-19 Mon itor the work un der 2A-18 based on the monitoring check sheets. 5-2 Project Team makes a roll-out program and coordinates with Sub-county 3-4 Support the pilot district to implement regeneration of WSCs in the pilot Run a trial on an automated collection system in the selected project Run a trial on reducing the frequency of manual water fee collection. 2A-18 Train the Serviœ Centre staff on key core activities (administrative, 4-3 Support RWSSD and the target districts to implement supervision of 3-1 Support the target districts to formulate the WSC training program finance, technical, so ciety and people) of the Service Centre. 3-6 Su pport WSCs to implement M&E of the pilot subprogram. 4-2 Implement the training program to RWSSD and DWOs. target demo sites for latrine construction in Mubende borehole drilling, construction, and rehabilitation. in the selected project communities. latrine construction demos. [Activities for Out put 4] [Activities for Out put 3] [Activities for Out put 5] the pilot subprogram. of WSCs activities and rehabilitation. communities. best practices. subprogram. staff. 2B-3 2B-4

behavior change and demo latrine designs as documents from the imp lemented interventions.	[Activities for Out put 6] 6-1 Summarize good practices and less ons learn t from the activities related to Outputs 2~5. 6-2 Propose revision of the existing hand books and training manuals regarding O & M based on the activities of Outputs 2~5 6-3 Organize learning platforms to disseminate go od practices and lessons learned obtained at the activity 6-1 6-4 Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector.	

Project Monitoing Sheet Project for Oneration & Maintenance for Rural Water Sunnly and Improved Hosiene and Sanitation	ll (Revision of Plan of Operatiσι)	For PDM Ver. 5 Dated: December 2019
NPUTS	2017 2017 4 5 6 7 7 8 9 10   11   12 1 1 2 1 3 4 4 5 6 7 7 8 9 10   11   12 1 1 2 3 4 5 6 7 7 8 9 10   11   12 1 1 2 3 4 5 6 7 7 8 9 10   11   12 1 1 2 3 4 5 6 7 7 8 9 10   11   12 1 1 2 3 4 5 6 7 7 8 9 10   11   12 1 1 2 3 4 5 6 7 7 8 9 10   10   11   12 1 1 2 3 4 5 6 7 7 8 9 10   10   11   12 1 1 2 3 4 5 6 7 7 8 9 10   10   10   10   10   10   10   10	Monitoring Issue Solution
Expert		
Chi ef Advisor / Rural Water Supply / Organizational Management	Plan Machine	
Chief Advisor / Rural Water Supply /Organizational Management	Plan Marine	
Chief Advisor / Water Supply Policy	Plan	
Wee Chief Advisor / Operation and Maintenance of Rural Water Supply Fadillies	Plan	
ation of Rural Water Supply facilities I/Construction supervision 1	Plan	
Rehabilitation of Rural Water Supply facilities 2/Construction supervision 2	Plan	
Hydrogeology 1	Plan	
Hydrogeology 2	Plan	
Hydrogeology 2	Plan Marin M	
Hygiene and Sanitation 1		
Hygiene and Sanitation 2 / Organizational Analysis 1 / Monitoring and Evaluation 1		
Audit System	Plan and a second secon	
Labor Management 1	Plan	
Rural Water Supply	Pign	
Society 1/ Organizational Analysis 2 / Monitoring & Evaluation 2	Plan	
Organizational Management 2	Plan	
O&M of Rural Water Supply Facilities 2 / Labor Management 2 / Society 2	Plan	
Society 2 / Putlic Relations / Financial Management / Project Coordinator		
Society 2 / Project Coordinator	Plan	
Piped Water Supply /Collaboration	Plan Adua	
Equipment		
Water Quality Analysis Kit	Plan	
Operation and Maintenance Tod's for Rural Water Supply	Plan	
sdundpusH	Plan	
Training in Japan or third country		
	Plan	
h-country Training		
Training for Supervision	Pign Actual	

		Diary 716 7176 2019 in-material constants
	ACTIVITIES	0 11 12 1 2 3 4 5 6 7 8 9 10 11 2 1 2 3 4 5 6 7 8 9 10 11 2 1 2 3 4 5 6 7 8 9 10 11 2 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 10 11 12 1 2 3 4 5 6 7 8 10 11 12 1 2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Output 1	1: Strategy for capacity develop ment in O&M of rural water	Output 1: Strateov for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.
1-1	Set up a Working Group (WG) to discuss the framework of O&M system of rural water supply facilities and improvementof sanitation condition	
Ra	Review existing policy framework and laws regarding O&M of rural water	
1-2 sup	aritation to claify responsibilities and challenges of	
		The state of the s
2 6	Calductoaselline suveys in the talget districts	Actual Ac
1-4 San	ings or good practices and lessons learnt of fural water supply and at the WG and prepare a report of the present situation and	Plan
	ent ofrelevant	- Comment of the comm
ţsui C-	institutions based on the results of activities 1-2~1-4	ecta .
1-6 For	Formulate PDM(ver2) and PO(ver2)	Adul
Output 2	Output 2A: O&M support system of rural water supply facilities in the public and	the public and private sectors is strengthened in the target districts.
2A-1 For	Formulate training programs on O&M planning to relevant institutions	
Sup	Support RWSSD and the target districts to conduct training for capacity	- The state of the
	development in O& Msupport system for rural water supply facilities.	Actual Actual
	support KWSSD and the pilot district to carduct preparation of the pilot subprogram on O&M (formulate a framework of new O&M system, support	usid.
2A-3 dist	district local government to draw up ordinances for the pilot subprogram,	Actual
Sol in	and select the target sub-counfies and the target WSCs.) Support RWSSD and the pilot districtto implement the pilot subprogramon	
2A-4 O&	t &	The state of the s
	operation of the providor). Support RWSSD and the nilot district to implement M&E of the nilot	n vines
2A-5 Sub	subprogram on O&M.	in the second se
dns suc	Support the larget districts to formulate the annual work plans and implement	u ald
	admines (e.g. buenore diagnosis and remain alon, water quality analysis, etc.) based on the annual work plans.	Actual
2A-7 Pro	Project team undertakes rehabilitation in the target districts	Plan
2A-8 Sup	Support the target districts to form HPMA.	Olin Andrews
_	Support the target districts to conduct training to HPM s and HPMAs.	Athali
2A-10 out	outpoint me named in this to conductually loss and repail official water supply facilities.	
2A-11 Sup	Support the pilot distict to guide the management of HPM As to enhance its	
	Unclion.	(Applied Total Control of Control of Total Control of Contr
	rities.	
2A-13 Imp	Improve the supply chain of spare parts in the pilot district.	
2A-14 Hd	Had a period c meeting with all TSUs to share progress, ideas, and issues of	i Plan
2A-15 Rev	Review the documents related to operation of the service center (e.g.	
	regulations, manuals, work flow etc.) Draw up mori foring check sheets and progress report and performance	Aduit
-	report format for operation of the service center.	Adul
2A-17 our	Support NWSS D to preparing budgetreques for operation of the service center.	Plan.
2A-18 Tra	Train the service centre staff on key core activities (administrative, finance, inchrinal smiety and benote) of the service centre	P) Bin
2A-18 Moi	Monitor the work under 2A-18 based on the monitoring check sheets.	
Output 2	Output 28. A new 0.8 M support system of rural water supply facilities related to user fee collection is formulated	haud files related to lest the collection is formulated
arbar		
2B-1 Ru	Run a trial on mobile money transfer in the selected project communities.	Actual
2B-2 Ru	Run a trial on an automated collection system in the selected project	Plan
2B-3 Ru	Run a trial on reducing the frequency of manual water fee collection.	
	takers in	Actual Actual Plants
2B-4 the		Actual Actual
2B-5 Cor		Dan d
ple		NAME OF THE PROPERTY OF THE PR

	20046
ACTIVIT ES	7 8 9 10 11 12 1 2 3 4 5 6
Output 3: Operational capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.	
3-1 Support the larget districts to formulate the WSC training program	
3-2 Support the target districts to implement capacity development of WSCs	A Plan
Support the largetdistricts to implement monitoring and evaluation (MRE) of	Arman
WSCs activities Support the target districts to implement regeneration of WSCs in the pilot	Actual Planta
3-4 subprogram.	Actual
3-5 Support the target districts to implement awareness campaign to water users in the nilot support range.	Plan
3-6 Support WSCs to implement M&E of the pilot subprogram.	nel de la company de la compan
Support the target districts to take corrective actions based on the results of $_{\rm MRE}$	Pierra Carriera Carri
Output 4: Capacity to supervise development of rural water supply facilities is strengthened	y facilities is strengthened,
Formulate training program (e.g. steps and techniques for hordhole siting	
4-1 customize of hand pump fæility resistant to poor water quality, supervision of monstruction and installation of hand pumps etc.) in RWSSD and DWOs	
4-2 Implement the training program to RWSSD and DWOs.	usio.
	Actual Plan
diffling, construction, and rehabilitation.	Actual
Implement M & tot supervision ad M les for borefole dilling, constituction, and rehabilitation.	Adula Adula
Output 5: H&S in the pilot communities is improved.	
Project Team selects target villages and schools for CLTS sensitization and	
5-1 largetdemo sites for latrine construction in Mubende.	Actual
Project Team makes a roll-out program and coordinates with Sub-county	Plan
	N. C.
5-5 Projeta ream conducts a baselille survey at selected siles.	Actual Actual
Froject leam conducts CLIS sensitization (Figgering to monitoring) and sensitization (Figgering to monitoring) and lattice construction demos	Arban
Project Team compiles lessons learnt including calegorized approaches for	Plan
5-5 behavior change and demolatine designs as documents from the innemented interventions	Pane
Output 6: Good practices and lessons learnt in the Project are sk	Output 6. Good practices, and lessons learnt in the Project are shared wildely with stateholders in the water and san it after sector.
Summarize good præfices and lessons leamt from the activities related to	
6-1 Oupuls 2~5	Actual
6-2 Propose revisions of the existing hand books and training manuals regarding	Plan
Organize learning platforms to disseminate good practices and lessons	
	Actual
6-4 older good placerces and resons rearred roll the Project with standardies Franklin the water and sanitation sector.	Actual Control
Monitoring Plan	
Monitoring	
Joint Coord ration Committee	Sen
Set-up the Detailed Plan of Operation	April A. No. 1
Submission of Monitoring Sheet	△
In the prince of	
Billion	Altoritoring Mission  A Moritoring Mission
Post Monitoring	A Fraid
Reports/Documents	
Progress Report	Plan D D D D D D D D D D D D D D D D D D D
Project Completion Report	
Public Relations	
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# TO CR of JICA UGANDA OFFICE

# PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

**Version of the Sheet:** Ver. 8 (September 2020)

Name: Joseph Oriono Eyatu

Title: Project Director

Name: Kazumi Matsuda

Title: Chief Advisor

**Submission Date:** September 2020

# I. Summary

# 1 Progress

# 1-1 Progress of Inputs

Inputs	Plan as of September 2020	Actual as of September 2020
Experts	Input from Japan	Input from Japan
	Total: 126.61MM/137.24MM (92%)	Total: 126.61MM/137.24MM (92%)
	1st Phase 27.17MM/27.17MM(100%)	1st Phase 27.17MM/27.17MM(100%)
	2 <sup>nd</sup> Phase 100.85MM/100.85MM(100%)	2 <sup>nd</sup> Phase 100.85MM/100.85MM(100%)
	3 <sup>rd</sup> Phase 0MM/10.63MM(0%)	3 <sup>rd</sup> Phase 0MM/10.63MM(0%)
	I. Short Term Experts as follows:	I. Short Term Experts as follows:
	1. Chief Advisor/Water Supply Policy	1. Chief Advisor/Water Supply Policy
	(19.90MM)	(19.90MM)
	2. Vice Chief Advisor/Operation and	2. Vice Chief Advisor/Operation and
	Maintenance of Rural Water Supply	Maintenance of Rural Water Supply
	Facilities 1 (11.84MM)	Facilities 1 (11.84MM)
	3. Rehabilitation of Rural Water Supply	3. Rehabilitation of Rural Water Supply
	facilities 1/Construction supervision 1	facilities 1/Construction supervision 1
	(0.87MM)	(0.87MM)
	4. Hydrogeology 1 (15.03MM)	4. Hydrogeology 1 (15.03MM)
	5. Hydrogeology 2 (8.46MM)	5. Hydrogeology 2 (8.46MM)
	6. Hygiene and Sanitation 1 (9.67MM)	6. Hygiene and Sanitation 1 (9.67MM)
	7. Hygiene and Sanitation	7. Hygiene and Sanitation
	2/Organizational Analysis	2/Organizational Analysis
	1/Monitoring and Evaluation 1	1/Monitoring and Evaluation 1
	(9.00MM)	(9.00MM)
	8. Audit System (2.50M/M)	8. Audit System (2.50M/M)
	9. Labor Management 1 (2.27M/M)	9. Labor Management 1 (2.27M/M)
	10. Society 1/ Organizational Analysis 2/	10. Society 1/ Organizational Analysis 2/

	Manitarina & Evaluation 2	Monitoring & Evaluation 2
	Monitoring & Evaluation 2	Monitoring & Evaluation 2
	(11.50MM)	(11.50MM)
	11. Operation and Maintenance of Rural	11. Operation and Maintenance of Rural
	Water Supply Facilities 2 / Labor	Water Supply Facilities 2 / Labor
	Management / Society 2 (8.80MM)	Management / Society 2 (8.80MM)
	12. Rural Water Supply (1.80MM)	12. Rural Water Supply (1.80MM)
	13. Organizational Management 2	13. Organizational Management 2
	(1.97MM)	(1.97MM)
	II. Long Term Expert for Piped Water	II. Long Term Expert for Piped Water
	Supply/ Collaboration (23.00MM)	Supply/ Collaboration (23.00MM)
	Input from Uganda	Input from Uganda
	1. Mutiibwa Robert (Principal Water	Mutiibwa Robert (Principal Water
	Officer), Project Manager	Officer), Project Manager
	2. Bisoborwa Paul (Social Scientist)	2. Bisoborwa Paul (Social Scientist)
	Liaison Officer - Point water sources	Liaison Officer - Point water sources
	3. Martha Naigaga (EHO)	3. Martha Naigaga (EHO)
	4. Marcia Tusiime (EHO)	4. Marcia Tusiime (EHO)
	5. Nakasagga Jackline (Social Scientist-	5. Nakasagga Jackline (Social Scientist-
	Trainee), Administrator the of Service	Trainee), Administrator the of Service
	Centre	Centre
	6. Kajumba Grace (Graduate Trainee),	6. Kajumba Grace (Graduate Trainee),
	Head Technical Operations of the	Head Technical Operations of the
	Service Centre	Service Centre
	7. Eng. Bateganya David (Senior	7. Eng. Bateganya David (Senior
	Engineer)	Engineer)
	Liaison Officer	Liaison Officer
	8. Katumba Willy (Borehole	8. Katumba Willy (Borehole
	maintenance superintendent)	maintenance superintendent)
	9. Kwagalakwe Asenath (Graduate Trainee)	Kwagalakwe Asenath (Graduate     Trainee)
	10. Mugeiga Kato (Social Scientist)	10. Mugeiga Kato (Social Scientist)
	Liaison Officer - Piped water schemes	Liaison Officer - Piped water schemes
	11. Alamai Marion (Graduate Trainee ~	11. Alamai Marion (Graduate Trainee ~
	Jan. 2017)	Jan. 2017)
	12. Mukamwiza Hope (Trainee	12. Mukamwiza Hope (Trainee
	Accountant), Accountant of the	Accountant), Accountant of the
	Service Centre	Service Centre
Equipment	1st phase	1st phase
	1. Water Quality Analysis Kit:	1. Procured
	- Spectrophotometer: 1 set	
	- Pack test (Iron) (50 pc.): 3 sets	
	- E-coli test paper (100 pc.): 3 sets	
	E con test paper (100 pc.). 3 sets	

	- Bacteria (100 pc.): 3 sets  2. Operation and Maintenance Tools for Rural Water Supply: - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets  3. GPS portable: 5 sets  4. Copy machines: 2 sets 5. Projector: 1 set 6. Vehicles: 1 station wagon and 1 pickup truck  2nd phase  1. Water Quality Analysis material - Pack test (Nitrate) (150 pc.): 4 sets - Pack test (Nitrate) (50 pc.): 2 sets	<ol> <li>Procured</li> <li>Procured</li> <li>Procured</li> <li>Procured</li> <li>Delivered to GoU by JICA</li> <li>2nd phase</li> <li>Procured</li> </ol>
	-E-coli test paper (100 pc.): 7 sets  2. Hand pump (U2): 100 sets	<ul> <li>2. Procured</li> <li>- Hand pump (U2): 84 sets</li> <li>- Hand pump (U2 extra deep): 33 sets</li> <li>- Hand pump (U3 Modified): 1 sets</li> </ul>
Training	Training in Japan and/or a third country	The training in Japan and/or a third country was changed to the training in Uganda for increasing the effect of the training. The integrated training in Uganda is proposed and approved in the JCC-7 in January 2020.
Ugandan Side Operational Expenses	Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)	Allocated including C/P of H&S
	2. Supply of replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the equipment provided by JICA.	Replacement of vehicle tires and vehicle routine service will be disbursed from project account.
	3. Allocation of office space and facilities (office space for JICA experts in Kampala and the target districts, and other necessary facilities, equipment and materials for administration of the Project)	3. Office space and facilities in Kampala and in Mubende DWO were allocated.

- 4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)
- 5. Running expenses necessary for the implementation of the Project
- 6. Allocation of necessary human resources to run the Service Centre in target districts
- 4. The costs will be disbursed from the project account.
- 5. The expenses will be disbursed from the project account.
- 6. Staff of Mubende Service Centre was allocated except for an administrator.

# 1-2 Progress of Activities

- Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated
  - Baseline survey was implemented.
  - Capacity development strategy was established based on the activities.
  - Progress report (No. 1) was submitted (June 2016).
  - Activities of Output 1 were completed in the 1st phase.
- **Output 2A**: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende and Kassanda districts
    - (Activity 2A-1) Formulation of training programs and preparation of pilot subprogram of O&M is completed
    - (Activity 2A-3) a preparation to implement a pilot subprogram on O&M are completed (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot subprogram, and select the target sub-counties and the target WSCs).
    - (Activity 2A-2, 2A-4, and 2A-5) completed.
    - (Activity 2A-6) The budget required to implement the pilot subprogram was documented in the M/M on Decenter 6, 2016.
    - (Activity 2A-7) 96 boreholes were rehabilitated in 9 sub counties in Mubende district and 9 sub counties in Kassanda district.
    - (Activity 2A-9) 36 HPMs (Hand Pump Mechanics) were trained in 18 sub counties in Mubende and Kassanda districts.
    - (Activity 2A-10) The above HPMs were trained through rehabilitation works.
    - (Activity 2A-11) The service center is ordering HPMA (Hand Pump Mechanic Association) to repair hand pumps when customer communities report a defect.
    - (Activity 2A-12) A working meeting was organized for HPMAs to coordinate activities in April 2019.
    - (Activity 2A-13) A supplier of spare parts and the project concluded a supply contract in Mubende district
    - (Activity 2A-14) Project activities and plans were shared and discussed in a TSU meeting in May 2019 in Kampala.
    - (Activity 2A-15) The regulation, MOU and contract format were reviewed. They are confirmed consistency and unified.

- (Activity 2A-16) The project team interviewed with the Service Centre staff regarding their current scope of work and responsibility.
- (Activity 2A-17) Project team assisted MWE to draft the budget. The drafted budget was approved by the PS in MWE at the JCC-7 in January 2020.
- (Activity 2A-18) The administrator has not been appointed yet. However, the remaining staff continues their OJT. The Accountant and the Assistant Accountant are trained on recording the cash book, balance sheet and management of the bank account book. HTOs learned about the way of repair (technical matter), reporting, and spare parts management. OPS are trained for raise awareness of DDMS though several field trials.
- (Activity 2A-19) The monitoring sheet of the Service Centre will be developed by applying indicator utilized in the districts (JMC). It will be finalized through the discussion in coming JMC meetings.
- (2) Activities for control districts
  - (Activity 2A-1) A training program was formulated to strengthen CBMS (Community Based Maintenance System)
  - (Activity 2A-2) ToT training was conducted for district staff about WSC (Water Sanitation Committee) training and sensitization of water users.
  - (Activity 2A-6) Well diagnosis work was conducted for selected wells for rehabilitation.
  - (Activity 2A-8) HPMA in Kiboga district was re-energized, which was not functioning during the baseline survey.
  - (Activity 2A-10) MoU was signed between HPMA and district local governments regarding the management of the repair toolboxes which were procured in the 1st phase of the project.
  - (Activity 2A-10) MoU was conclude between HPMA and the local governments regarding report system for handpump repair.
- **Output 2B**: A new O&M support system of rural water supply facilities related to user fee collection is formulated.
  - (Activity 2B-1) Trial of mobile money started at 8 sources. As a result, 3 sources can continue. The new trial of fixed award of caretaker is started at 6 sources in June 2020.
  - (Activity 2B-2) The 1<sup>st</sup> SUNDA is operating at Lubugumu, Kibalinga S/C since February 2020. The 2<sup>nd</sup> SUNDA is planning at Mwasabikopo, Kassanda S/C.
  - (Activity 2B-3) Money collection was suspended from April to June 2020 because of COVID-19. Basically, the interval of money collection is 2 months. It is effective from the view of cost efficiency.
  - (Activity 2B-4) Incentives (small consumer goods) are distributed to Top 5 collection sources and Best Performing source every month from January 2020. It is suspended from April to July because of COVID-19.
  - (Activity 2B-5) The results and impact of the above trial will be analyzed and summarized.
- **Output 3**: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende district
    - (Activity 3-1) Formulation of training materials and training program is completed
    - (Activities 3-4, 3-5, and 3-6) Training using above materials are completed in 18 sub-

counties in Mubende and Kassanda districts.

- (Activity 3-7) Follow up activities were conducted such as re-sensitization and training of caretakers, meeting with politicians and re-sensitization involving politicians and opinion leaders, consultation with WSC and response to requests for facility malfunction.
- (2) Activities for control districts
  - (Activity 3-1) WSC training program was implemented
  - (Activity 3-2) Training for relevant district staff and sub-county extension workers in target districts were implemented.

Output 4: Capacity to supervise development of rural water supply facilities is strengthened

- (Activity 4-1) Training materials were almost finalized through discussion between MWE's hydrogeologists and the Japanese expert team.
- (Activity 4-2) The training program implementation method (venue, participants, number of people) is not fixed.
- (Activity 4-3) Project Team conducted the site inspection of rehabilitated facilities with MWE staff, DWO staff, and Sub county staff in Mubende and Kassanda districts.
- (Activity 4-4) Project Team confirmed the all detected flaws were improved.

**Output 5**: Proposed ODF practices in the selected communities implemented.

- (Activity 5-1) Project Team selected 64 target villages in Mubende and Kassanda districts. (Activity 5-2) Project team with sub county health team conducted stakeholder meeting with sub county authority involving parish level teams to share about project and reflect on relationship and roles per stakeholder.
- (Activity 5-3) Project team conducted baseline survey for selected 64 villages. And in parallel MWE conducted baseline survey. The number of villages of baseline is 150 villages in total.
- (Activity 5-4) Project Team completed CLTS sensitization (triggering to monitoring) and latrine construction demos.
- (Activity 5-5) Lessons learnt were compiled and produced as a booklet including categorized approaches for behavior change and demo latrine designs.

**Output 6**: Good practices, lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.

- (Activity 6-1) Good practices and Lessons learnt were analyzed based on the end line survey. Several positive impacts are appeared to DDMS.
- (Activity 6-4) Project team participated in the World Water Day in Entebbe on March 22nd 2019, which was part of Uganda Water and Environment Week.

The detail of each activity is shown in the annex 1.

# 1-3 Achievement of Output

\*OT: On time, SFL: Schedule for later, DL: Delay

Output/Indicators	Major Results	Status*		
Output 1:Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.				
Baseline survey revealed failure of CBMS.				

- A system was proposed in which District directly manage O&M of water supply facilities (DDMS) and it was decided to test-run the system in Mubende (later divided into Mubende and Kassanda) as a pilot subprogram.
- Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document.
- Necessary documents were prepared as below;

Achieved

- a) Progress Report (No.1) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (June 2016)
- b) PDM (ver.2) (approved at 3<sup>rd</sup> JCC on 25 August 2016)
- c) Technical Note on the Operation and Maintenance System of Rural Water Supply for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (2 September 2016)
- d) Minutes of Meeting on the
  Discussion of the Second Stage
  Activities for the Project for
  Operation & Maintenance for Rural
  Water Supply and Improved
  Hygiene and Sanitation (6
  December 2016)
- e) Work Plan (2<sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)

**Output 2A**: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.

- 100 boreholes are enrolled to the new O&M system in Mubende and Kassanda, and they are maintained by the operation of the Service Centre. The downtime of the enrolled sources is significantly improved. As a result, the water users can always use safe water.
- Rehabilitation of boreholes are on-going in Kiboga, Mpigi and Butambala with MWE's budget.
- Total 45 staff received ToT for sensitization of water users and WSC
- Total 70 HPMs (2 HPMs in each sub county) were trained.
- Training program on O&M of rural water supply is formulated.
- Training program on O&M of rural water supply has been formulated as

Achieved

			<ul> <li>below;</li> <li>a) Scope of Works for Training of Trainers on O&amp;M of Rural Water Supply (August 2016)</li> <li>b) Work Plan (2<sup>nd</sup> Edition) for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)</li> <li>c) Formulation of materials for ToT for relevant district staff and sub-county staff in control districts. (April 2017)</li> </ul>	
	More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.	-	The ToT for sensitization of water users and WSC were implemented to District staff in control districts;  a) Mpigi: 3 district staff (19-20 April 2017)  b) Kiboga: 5 district staff (24-25 April 2017)  c) Butambala: 7 district staff (3-4 May 2017)  The ToT for Mubende and Kassanda district staff (8-9 Feb. 2018)  a) Mubende-3 staff (DWO, CAO, ACAO)  b) Kiboga-2 staff (ADWO, ACAO)  c) Mpigi-1 staff (DWO)  d) Butambala-2 staff (DWO, ADWO)  e) 1 Public Health Specialist (TSU)  As ToT for MWE, the review meeting for MWE (Ministry of Water and Environment), TSU (Technical Support Unit), and Mubende district were held from 11-12 September 2018. The participants were:  a) 10 MWE staff,  b) 2 TSU staff,  c) 9 Mubende district staff	Achieved (45 people in total)
-	The water service provider (the Service Centre) is established and functioning under the pilot subprogram.	-	The service center started the service for Kasambya and Kibalinga sub counties in April 2018.	Achieved

		1		1
		-	The service center has expanded the	
			service area to cover 8 Sub counties in	
			Mubende district as of October 2018.	
			The service center caters for all 18 sub	
			counties in Mubende and Kassanda	
			districts as of May 2019.	
-	O&M activities are implemented based on	-	Borehole diagnosis: 896 sites in 18 Sub	On-going
	the annual workplans.		counties of Mubende and Kassanda	
			districts, 41 sites in Kiboga district, 60	
			sites in Mpigi district, and 31 sites in	
			Butambala were completed.	
		-	Rehabilitation: Project supports 96	
			rehabilitation in Mubende and Kassanda	
			districts. MWE supports the	
			rehabilitation in other three districts. Air	
			lift works were completed in three	
			districts. But pump installation works	
			were delayed because of funding. Works	
			of Kiboga and Butambala districts were	
			completed. Works in Mpigi district has	
			started in September 2020.	
		_	Water Quality Analysis: Project	
			provided the water quality test kit in the	
			1st phase of the Project. Project team	
			learned the usage (January 2018). It	
			remains to establish an equipment rental	
			system between MWE and DWO.	
-	At least 24 boreholes are rehabilitated in	-	Borehole rehabilitation is completed for	Achieved
	target districts.		96 sites including apron and fence. (July	
			2019)	
-	At least two Hand Pump Mechanics	-	Trainings for 2 HPMs from each sub	Achieved
	(HPMs) are trained on site in each sub-		county (70 HPMs in total) were	
	county.		conducted in Mubende, Kassanda,	
	•		Kiboga, Mpigi and Butambala in	
			February 2018, November 2018,	
			December 2018 and January 2019).	
_	HPMAs in the target districts undertake	-	In control districts, MoUs between	Achieved
	repairs of handpumps.		HPMAs and district local governments	
	1		were signed regarding the management	
			of the repair toolboxes provided by the	
			project (April – May 2017).	
		_	In control districts, MoUs between	
$\Box$			John of districts, 1710 Ob Settreen	

-	Activities of the service centre monitored	<ul> <li>HPMAs and the local governments regarding report system of handpump repair were signed (May 2017).</li> <li>Mubende HPMA undertakes repair of hand pumps through the Service Center.</li> <li>Facilities to be repaired by HPMA are under rehabilitation by MWE. HPMS in control districts will start repair work after the rehabilitation.</li> <li>1st monitoring was done in the 2<sup>nd</sup> JMC</li> </ul>	On going
	at least 5 times during the extension period	<ul> <li>meeting on 31<sup>st</sup> January 2020.</li> <li>Following monitoring is suspended because of COVID-19.</li> </ul>	
_	Submission of monthly progress report and quarterly performance report on key core activities of the service centre to Joint Management Committee (JMC).	<ul> <li>1st monthly progress report was submitted in the 2<sup>nd</sup> JMC meeting on 31<sup>st</sup> January 2020.</li> <li>Other submission of other following report is suspended because of COVID-19.</li> </ul>	SFL
Oı	<b>utput 2B:</b> A new O&M support system of ru formulated.	ral water supply facilities related to user fee col	lection is
-	Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.	- I will be recommended through the series of activity 2B.	SFL
Oı	<b>utput 3</b> : Operational and management ca strengthened in the target districts.	pacity of Water and Sanitation Committee	(WSC) is
•	their roles in O&M of rural water supply condition.  45 WSCs in total were trained in Kiboga, completed yet for them to start maintainin work after the completion of rehabilitation Through the activities of JICA expert on reports has been maintained, and O&M management contract with the scheme operation.	piped scheme, transparency of the contract door fee collection has been improved. 6 schemes ator (SO). And 4 schemes of them opened the ex	source good has not been I start O&M cuments and s introduced clusive bank
_	account, then started to save a specific amo	ount of money – around 15 to 50 % of revenue a  The ToT for sensitization for water users	month.
	in the Project are functional.	and WSC were implemented to Subcounty officers in control districts.  a) Mpigi for 19 staff (19-20 April	Achieved

- O&M of piped water supply facilities is improved where activities are implemented.	b) Kiboga for 19 staff (24-25 April 2017) c) Butambala 15 staff (3-4 May 2017) The extension workers that have been trained will be supported to train the WSC in their communities - Functionality of trained WSCs (Sep. 2019) a) DDMS (100/100) b) CBMS (7/45) Total (107/145) 73%  - The O&M of following 6 piped water supply facilities were improved through project activity (September 2017); a) Bukomero T/C (Kiboga District): opened bank account and started to save money b) Kyanamugera RGC (Mubende District): made management contract with SO, opened bank account and save more than 500 USD c) Koch-Goma, Kitgum-Matidi (Acholi Sub Region): made management contract with SO, opened bank account and started to save money d) Awere, Corner-Kilak (Acholi Sub Region): made management contract with SO	Achieved
<u> </u>	of rural water supply facilities is strengthened.	
bidding and supervision. The training will	ne capacity gap of MWE and DWO in planning be implemented in the coming project period. In and completion inspections, which helped to in	

Output 5: Proposed ODF practices in the selected communities implemented.				
It contributed to ODF to arrange effectively	y latrine construction demonstrations, sanitation marketing			
and SLTS in addition to CLTS activities. These were compiled in the Handbook as a deliverable.				
- Proposed methodology to effectively	- Activities are implementing in 64 Achieved			
promote ODF are presented and tested.	villages in Mubende district.			
	a) 18 Sub county meetings are held.			
	b) Baseline survey was completed.			
	c) Triggering was done in 64 villages.			
	d) 1st follow up activities were held in			
	42 villages.			
	e) 2nd follow up activities were held in			
	26 villages.			
	f) Sanitation marketing was held in 7			
	villages. (October 2019)			
	- Activities were completed. (March			
	2019)			
- The results of activities are compiled, and	- A handbook was produced and approved   Achieved			
lessons learnt are extracted for	by MWE including following contents;			
recommendation on future effective	a) Stakeholder Meeting including 1			
implementation of CLTS interventions.	good practice and 1 lesson learnt.			
	b) Baseline Survey including 2 good			
	practices.			
	c) Triggering and Sensitization			
	Activity including 2 good practices			
	and 1 lesson learnt.			
	d) Sanitation Committee Training and			
	the Continuous Activities including			
	1 good practice and 1 lesson learnt.			
	e) Construction of Demonstrations			
	including 1 good practice and 1			
	lesson learnt			
	f) Sanitation Marketing including 1			
	good practice and 1 lesson learnt			
	g) School Led Total Sanitation include			
	1 good practice			
	h) Follow up MANDONA (FUM)			
	including 3 good practices and 1			
	lesson learnt			
	- This handbook is expected to deliver in			
	coming workshops for share good			
	practice and lesson learnt.			

Out	<b>Output 6</b> : Good practices, lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.				
•	<ul> <li>Project Team participated in events to disseminate the Project activities and mid-term achievement.</li> <li>Good practices and lessons learnt in the Project will be compiled and be shared.</li> </ul>				
- Lessons learnd and good practice is documented.  - They will be documented in the Project recommendation report.					
	Recommendations on proposed revisions of existing hand books and manuals are made.	-	They will be proposed in the Project recommendation report.	SFL	
	Documented good practice and proposed revisions are shared.	_	They are shared in coming workshops	SFL	
0	At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons earned are organized.	-	NGO Meeting in Mubende (16th May 2018)  Team exhibited project activities in National Hand Washing Day event (15th October 2018).  Team exhibited project activities in World Water Day event in Entebbe on March 22nd 2019.  Two workshops for promoting DDMS	SFL	
		_	are suspended because of COVID-19.		

# 1-4 Achievement of the Project Purpose

- <u>Indicator No.1</u>: Recent functionality of rural water supply facilities (deep boreholes) in the target districts is 84.6%. The target is 85%. It was almost achieved. In order to exceed the target, it is necessary to improve the functionality of Kiboga, Mpigi and Butambala through rehabilitation works by MWE. The rehabilitation work is ongoing, then the functionality will be improved.

District	Functioning	Functionality		
Mubende	223	9	232	96.1%
Kassanda	140	10	150	93.3%
Kiboga	125	27	145	86.2%
Mpigi	66	44	110	60.0%
Butambala	60	22	82	73.2%
	614	112	726	84.6%

<sup>\*</sup>Uganda Water Supply ATLAS, 7 September 2020

- <u>Indicator No.2</u>: 77 WSCs out of 100 monitored WSCs (77.0%) are collecting water charges in recent 6 months (from March to August 2020) in Mubende and Kassanda districts under DDMS. For Kiboga, Mpigi, and Butambala districts, 205 WSCs out of 364 WSCs (56.3%) of deep boreholes collect money according ATLAS. WSCs in CBMS is not achieved. After the above rehabilitation work, the WSCs are

- expected to motivate collecting water user charge.
- <u>Indicator No.3</u>: The down time of rural water supply facility in the monitored communities in Mubende and Kassanda districts become 3 days or less (mode is 1 day). The down time in Kiboga, Mpigi, and Butambala will be monitored after the above rehabilitation work.
- <u>Indicator No.4</u>: Household access to sanitation facilities with hand washing facilities in the selected villages reached at 18.9% at the end of the intervention. The project purpose is an increase from 4.8% to 13%.
- <u>Indicator No.5</u>: Revision of the guidelines for the O&M rural water supply facilities are proposed in the coming project recommendation report.

# 1-5 Changes of Risks and Actions for Mitigation

- JET is difficult to resume the activities in Uganda because of the long influence of COVID-19.

# 1-6 Progress of Actions undertaken by JICA

- JICA plans to make the extension of project period and makes the assignments of JET who support from Japan.

# 1-7 Progress of Actions undertaken by Gov. of Uganda

N/A

# 1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

# 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

- N/A

# 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

- N/A

# 2 Delay of Work Schedule and/or Problems (if any)

# 2-1 Detail

- The delay of progress and completion of the Project will influence the roll out plan of DDMS.

# 2-2 Cause

- The dispatch of JET is suspended because of COVID-19 since March 2020. It causes the delay of project activities, however, MWE plans to implement the DDMS rollout plan.
- MWE has embraced DDMS as a guaranteed approach in management of water supply infrastructure in rural areas since 1<sup>st</sup> July 2020.
- MWE plans to expand DDMS to 33 districts under the 4 regional Service Centre (including Mubende Service Centre).

### 2-3 Action to be taken

- The project recommendation report was planned to make as the comprehensive documents with the whole results of Project including additional trials for DDMS.

- However, MWE decided to roll out DDMS without waiting the project conclusion, the required documents need to be finalized for starting up DDMS in new regions.

# 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

- N/A

# 3 Modification of the Project Implementation Plan

## 3-1 PO

- PO was updated. (See the attached Monitoring Sheet Form 3-3.)
- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - R/D (the duration of the Project will be 5 years) will be amended with further extension of Project period.
  - JICA planned to support MWE with procurement of equipment for borehole rehabilitation as COVID-19 Response. JET supports and oversees the implementation.
- 4 Preparation of Gov. of Uganda toward after completion of the Project

- N/A

# Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: The Project for Operation & Main tenance for Rural Water Supply and Improved Hygiene and San itation

Implementing Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Environment (MWE)

Target Groups: MWE, RWSSD, District officers in charge of rural water supply and sanitation in the target districts

Period of Project: 5 years from the date when the first JICA Expert is disp atched

Project Sites. Kampala (RWSSD) and 5 Districts (Kib oga, Mubende, Kassanda, Butambala and Mpig i district)

Narrativ e Su mma ry	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
Overal Goal Operation & main lenance (O&M) policy and system of rural water supply factities improved by the Central Government are adapted to wide area in U ganda	Eunctionality of rural water supply facilities in the Central Region is improved     E. Households access to latrines and hand washing facilities in the Central Region is in aceased     Issuedguidelines are used to inform O&M policy.	1. 2. Sector Performance Report 3. Issued guideliens / proposal of policy change			
Project Purpose O&M system of rural water supply facilities and lygiene and sanitation (H&S) in the target districts, and system of the Central Government relating to O&M are improved	1. Functionality of rural water supply facilities in the target districts is increased from 81% to 85%.  2. The rate of WSC collecting water charges and conducting mainten ance of rural water supply facility in the target districts is increased from 51% to 70%.  3. The down time of rural water supply facilities is reduced in the target districts.  4. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%.  5. Revision of the guiddines for the O&M rural water supply facilities are proposed in the recommendations.	1. Sector Performance Report 2~4. Project documents 5. Project recommendation report	■ Policies on rural water supply are not significantly changed ■ Financial resources which are currently allocated to the target districts are not significantly decreased in Central region		
Outputs  1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated	1 Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document	1 Project documents	■ Financial resources currently allocated to the target districts are not significantly decreased	■Baseline survey revealed failure of CB MS. ■A system was proposed in which District directly manage O&M of water supply facilities (DDMS) and it was decided to test run the system in Muben de (later divided into Mubende	

Ver. 8

September 2020

Remarks		
Achievement	Kassanda) as a pilot subprogram.  100 bo reh oles are enrolled to the new O&M system in Mubende and Kassanda, and they are maintained by the op eration of the Service Centre. The do wntime of the enrolled sources is significantly improved. As a result, the water users can always use safe water.  Rehabilitation of bo reholes are on-going in Kibog a, Mpigt and Butamb ala with MWE's budget.  Total 45 staff received ToT for sensitization of water users and WSC  Total 70 HPMs (2 HPMs in each sub-county) were trained.	■ WSCs and caretak ers are trained for around 10 0 sources under DDMS and mo st of them are playing their roles in O&M of rural water supp by facilities. Their work helps to keep the water source go od cond ition.  ■ 45 WSCs in total were trained in Kiboga, Mpigi and Butambala but rehabilitation work has not been completed yet for them to start
Important Assumption		
Means of Verification	2-1~7Project documents2A-8 Monitoring reports 2A-9R ecord of sub mission 2B-1 Documented Best of Practice (BoP)	3-1~2 Project documents
Objectively Verifiable Indicators	2A-1 Training program on O&M of rural water supply is formulated. 2A-2 More than 20 staffs from RWS SD and the target districts incharge of water supply and sanitation receive the ToT. 2A-2 The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 2A-4 O&M activities are implemented based on the annual workplans. 2A-5 At least 24 boreholes are rehabilitated in target districts. A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 2A-7 HPMAs in the target districts undertake repairs of handpumps. 2A-8 Activities of handpumps. 2A-8 Activities of handpumps exerce centre monitored at least 5 times during the extension period at least 5 times during the extension period at quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC). 2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.	3-1 More than 85% of WSCs which are trained in the Project are functional. 3-2 O&M of piped water supply facilities is improved where activities are implemented.
Narrative Summary	2A. O&M support system of rural water supply facilities in the public and private sectors is streng thened in the target districts streng thened in the target districts.  2B. A new O&M support system of rural water supply facilities related to user fee collection is formulated.	3. Operational and management capacity of Water and San itation Committee (WSC) is streng thened in the target districts

Remarks		
Achievement	maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.  Through the ætivities of JICA expert on piped scheme, transparency of the contract documents and reports has been maintained, and O&M fee collection has been improved. 6 schemes introduced management contract with the scheme op erator (SO). And 4 schemes of them operator the with the scheme per account, then sperific amount of money — aro und 15 to 50% of revenue a month.	■ Train ing program was for mulated to fill the capacity gap of MWE and DWO in planning, designing, bidding and supervision. The training will be implemented in the coming project period. ■ MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise.
Important Assumption		
Means of Verification		4-1 Project documents
Objectively Verifiable Indicators		4-1 More than 12 staff's from RWSSD and the target districts in charge of rural water supply and sanitation complete the training supply and sanitation complete the training
Narrativ e Su mma ry		4. Capacity to supervise development of rural water supply facilities is strengthened

Narrativ e Summa ry	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
5. Proposed ODF practices in the selected communities implemented.	5-1 Proposed methodology to effectively promote ODF are presented and tested. 5-2 The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	5-1~2 Project documents		It contributed to ODF to arrange effectively latrine construction demonstrations, sanitation marketing and SLTS in addition to CLTS activities. These were compiled in the Handbook as a deliverable.	
6. Good practices and lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.	6-1 Lessons learnd and good practice is documented. 6-2 Recommendations on proposed revisions of existing hand books and manuals are made 6-3 Documented good plactice and proposed revisions are shared. 6-4 At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organised.	6-1∼4Proje¢ documents		■ Project Team participated in events to disseminate the Project activities and mid-term achievement.  ■ Good practices and lessons learnt in the Project will be compiled and be shared.	

In Kindle of county (W) in deuse the funework of OLAM years of the Advanced and the control of the Advanced of	Activities	Inputs	uts	Important Assumption
2A-1/Support KWSSD for preparing budget request for operation of the service center.	ities for Out put 1]  It al water supply facilities and improvement of sandation roondition  wiew existing policy framework and buy evenement of sandation roondition  wiew existing policy framework and buys regarding O&M of rural water pply and santiation to clarify responsibilities and challenges of  whole dease.  And a santiation to clarify responsibilities and challenges of  mudu de baseline surveys in the target districts  are findings of good practices and les ons kearn of rural water supply and  mudu good practices and les ons kearn of the present situation and  mulate a project approach for capacity development of relevant  mulates based on the results of activities 1-2-1-4  mulate PDM(ver. 1) and PO(ver. 1)  without RWSD and the target districts to conduct raining for capacity  support RWSSD and the pilot district to conduct preparation of the pilot  wupport RWSSD and the pilot district to onduct preparation of the pilot  by program on O&M (formulate a framework of new O&M system, support  wupport RWSSD and the pilot district to implement the pilot subprogram.  O&M (sasables hwater service provider support the management &  cett the target sub-counties and the targ of WSCs.)  support RWSSD and the pilot district to implement M&E of the pilot  by program on O&M (formulate a framework of new O&M system, support  wipport RWSSD and the pilot district to implement M&E of the pilot  by program on O&M.  Support the target districts to formulate the amnual work plans and  plement activities (e.g. borehole diagnosis and rehabilitation, water quality  support the trained HPMs to conduct training to HPMs and HPMAs.  Support the trained HPMs to conduct diagnosis and repair on rural water  support the trained HPMs to conduct diagnosis and repair on rural water  support the trained HPMs to fame parts in the pilot district.  Support the pilot district to implement M&E of HPMs and HPMs and proper the supply do air of spare parts in the plot district.  Support the pilot district to implement M&E of HPMs as a proper of t	The Japanese sile  1. Personnel:  - Chief Advisor/Rural Water Supply/Organ ization al Management  - O&M ofR ural Water Supply Facilities (Hand pump)  - Rehabilitation of Rural Water Supply Facilities (Hand pump)/C onstruction  - Supervision  - Hydrogeology  - Hydrogeology  - Hygiene and Sanitation  - O&M ofR ural Water Supply Facilities (Piped water supply) / Project Coordination  - Other experts if necessary  2. Equipment: Office equipment, two vehicles, tool kits, and others  3. Training in Japan and/ora third country  4. Project activities fee	The Ugandan side  1. Allocation of counterparts and ad ministrative perso mnel  - Project Director - Project Manager - Counterp arts  2. Equipment Two vehicles, equipment and materials for administration of the Project  3. Allocation of office space and facilities - Working space for JIC A experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project  4. Counterpart-related costs (including salary, allowance and traveling cost for counterp arts)  5. Runn ing expenses necessary for the implementation of the Project  6. Allocation of necessary human resources to run the service centre in target districts.	

# budgetary stepsofUgandan side by project funds to the project account the Min utes of Meeting dated Dec. The budget for the Project to be borne by the Ug and an side is MWE and the Project Team have Bank account for the project was Allocation and disbursement of Is sues and Countermeas ures> opened (8th September 2017). is ex ecuted on 18th October. 6, 2016 witnessed by JICA. made an agreement on the Pre-Conditions secured Run a trial on an incentive and for reward system for WSCs and caretakers 3-5 Support the pilot district to implement awareness campaign to water users in Run a trial on mobile money transfer in the selected project communities. 4-4 Implement M&E of supervision activities for borehole drilling, construction, 3-7 Support the target districts to take corrective actions based on the results of of construction and in stallation of hand pumps, etc.) to RWSSD and DWOs. customize of han dpump facility resistant to poor water quality, supervision 3-3 Support the target districts to implement monitoring and evaluation (M&E) 5-1 Project Team selects target villages and schools for CLTS sensitization and Compile the individual performance of 2B-1 to 2B-4 and determine the 5-5 Project Team compiles lessons learnt including categorized approaches for 4-1 Formulate training program (e.g. steps and techniques for borchole siting, 3-2 Su pport the target districts to implement capacity development of WSCs 5-3 Project Team conducts a baseline survey at selected sites. 5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and 2A-19 Mon itor the work un der 2A-18 based on the monitoring check sheets. 5-2 Project Team makes a roll-out program and coordinates with Sub-county 3-4 Support the pilot district to implement regeneration of WSCs in the pilot Run a trial on an automated collection system in the selected project Run a trial on reducing the frequency of manual water fee collection. 2A-18 Train the Service Centre staff on key core activities (administrative, 4-3 Support RWSSD and the target districts to implement supervision of 3-1 Support the target districts to formulate the WSC training program finance, technical, so ciety and people) of the Service Centre. 3-6 Su pport WSCs to implement M&E of the pilot subprogram. 4-2 Implement the training program to RWSSD and DWOs. target demo sites for latrine construction in Mubende borehole drilling, construction, and rehabilitation. in the selected project communities. latrine construction demos. [Activities for Out put 4] [Activities for Out put 3] [Activities for Out put 5] the pilot subprogram. of WSCs activities and rehabilitation. communities. best practices. subprogram. staff. 2B-3 2B-4

behavior change and demo latrine designs as documents from the imp lemented interventions.	[Activities for Out put 6] 6-1 Summarize good practices and less ons learn t from the activities related to Outputs 2~5. 6-2 Propose revision of the existing hand books and training manuals regarding O & M based on the activities of Outputs 2~5 6-3 Organize learning platforms to disseminate go od practices and lessons learned obtained at the activity 6-1 6-4 Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector.	

Dated: September 2020 Solution Monitoring Fa PDMVer 5 ssue Remarks 8 9 10 Project Title: The Project for Operation & Main tenance for Rural Water Supply and Improved Hygiene and Sanitation and Sanitat 3 4 5 6 7 8 9 10 11 12 Actual Plan Actual Plan Actual Plan
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Plan
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Actual Vice Chief Advisor / Operation and Maintenance of Rural Water Supply Society 1 / Organizational Analysis 2 / Monitcring & Evaluation 2 INPUTS Chief Advisor / Water Supply Policy Organizational Management2 Labor Management1 Rural Water Supply Fadii ties Expert

		Plan/	2020	Responsible Organization	<b>.</b>
	ACTIVITES	Actual 3	4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10	Achievements Cour	ænes
Outpu	Output 2A: O&M support system of rural water supply facilities in the		public and private sectors is strengthened in the target districts.	Ġ	
20-11	Hold a periodic meeting with all TSUs to share progress, ideas, and issues	Plan			
† LV7	of on-gaing activities	Actual			
21 15	Review the documents related to operation of the service center (e.g.	Plan			
C1-K2	regulations, maruals, work flow etc).	Actual			
24.46	Draw up monitoring check shects and progress report and perform ance	Plan			
01-A2	report form at for operation of the service center.	Actual			
27 17	Support RWS SD for preparing budget request for operation of the service	Plan			
/ I _ W Z	center.	Actual			
0 7 4 0	Train the service centre staff on key core activities (administrative, finance,	Plan			
01-W7	technical, society and people) of the service centre.	Actual			
0 4 0	Maniferthan of an 10 months of the manifering of the maniferty	Plan			
61-H2	ZA-13 INDITION LIE WOLK UITGE ZA-10 LASEU OILUIE IIIDITION UIEUK SIEEB.	Actual			
Outpu	Output 2B: A new O&M su pport system of ru ral water supply facilities related to u ser fee 🗴 llection is formulated	älitiesr	elated tou ser fee collection is form ulated.		
000	continue was to be a color of the city of some of into the color of the city o	Plan			
I-Q7	runa maloninon enoney mansia in me selecteupique commues.	Actual			
0 00	Run a trial on an automated collection system in the selected project	Plan			
7-07	omm unities.	Actual			
20 3	Ding triplon requiring the fractions of manual water to collection	Plan			
2.0-2	ivila vialottiedudilg vietlequetry of manda water tee confection.	Actual			
7 00	Run a trial on an incentive and/or reward system for WSCs and caretakers	Plan			
t-0.2	in the selected project communities.	Actual			
2B.5	Compile the individual performance of 2B-1 to 2B-4 and determine the best	Plan			
25.7	gractices.	Actual		_	

dwidely with stakeholders in the water and san itation sector.		ACTIVITIES	Plan/         2020         Activation         Activation         Activation         Activation and a second a second and a second a
reafring program to RWS SD and DWOs, Actual notices and lessons learnt in the Project are shared widely with stakeholders in the water and san itation sector, and pastices and lessons an	Outp	ut 4: Capacity to supervise development of rural water sup	ilities is streng thened.
Tractices and lesson's learnt in the Project are shared widely with state holders in the water and san it at ion sector.  About the existing hand books and training manuals and essons seminate good practices and lessons handlessons between the activities of Outputs 2-5  The water and sanitation sector.  About the water and sanitation sector.  Actual  Actua	4-2	Implement the training program to RWS SD and DWOs.	Yan     Actual
ation Committee  Actual  The water and sanitation sector.  Actual  Actual  Actual  The water and sanitation sector.  Actual  Actual  The water and sanitation sector.  Actual  The w	Outp	ut 6: Good practices and lessons learnt in the Project are s	
Actual bose of the existing thand books and training manuals hoped on the activities of Outputs 2-5 hours and lessons and lessons and lessons and lessons have a compared to the activity 6-1 hours and lessons learned from the Project with actives and lessons learned from the Project with Actual hoped to Committee Actual Actual hoped to Committee Actual ho	7	Summarize good practices and lessons learnt from the activities related to	la l
The water and sartified Plan of Operation  The water and Seminale good practices and lessons Plan  The water and sartifation sector.  The water and sartifat	- 0	Outputs 2~5	vc tu al
the edon the activities of Outputs 2-5 ing platforms b disseminate good practices and lessons Pan add at the activity 61 add and lessons learned from the Project with Pan atches and lessons learned from the Project with Pan atches and lessons learned from the Project with Pan atches and lessons learned from the Project with Pan atches and lessons learned from the Project with Pan atches and lessons learned from the Project with Pan atches and lessons learned from the Project with Pan atches and lessons learned from the Project with Pan atches and lessons learned from the Pan Actual Pan	6-2	Propose revisions of the existing hand books and training manuals	Jan
ring platforms b disseminate good practices and lessons and additionable good practices and lessons add at the activity 6.1  add the activity 6.1  Actual and cascus elerned from the Project with Actual at the water and sanitation sector.  Actual at an additional sector.  Actual Ban Actual Ban Actual Ban	2	regarding O&M based on the activities of Outputs 2~5	\c\tau
ad the activity 6.1  Actual  Inter water and sanitation sector.  Actual	6-3	Organize leaming platforms to disseminate good practices and lessons	an a
the water and satitation sector.  the water and satitation sector.  the water and satitation sector.  Actual	) )	learned obtained at the activity 6-1	\ctra
the water and sanitation sector.   Actual   Act	9	Share good practices and lessons learned from the Project with	Jan
Actual         Actual<	†	stakeholders in the water and sanitation sector.	votual Actual
ation Committee         Plan         Actual	Monit	to ring Plan	
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# TO CR of JICA UGANDA OFFICE

# PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

**Version of the Sheet:** Ver. 9 (September 2021)

Name: Joseph Oriono Eyatu

Title: Project Director

Name: Kazumi Matsuda

Title: Chief Advisor

Submission Date: September 2021

# I. Summary

# 1 Progress

# 1-1 Progress of Inputs

Inputs	Plan as of September 2021	Actual as of September 2021
Experts	Input from Japan	Input from Japan
	Total: 137.32MM/137.82MM (99%)	Total: 128.88MM/137.82MM (94%)
	1st Phase 27.17MM/27.17MM(100%)	1st Phase 27.17MM/27.17MM(100%)
	2 <sup>nd</sup> Phase 100.85MM/100.85MM(100%)	2 <sup>nd</sup> Phase 100.85MM/100.85MM(100%)
	3 <sup>rd</sup> Phase 9.30MM/9.80MM(95%)	3 <sup>rd</sup> Phase 0.86MM/9.80MM(9%)
		NOTE: From March 2020 to August 2021,
		JET supports Uganda remotely under the
		influence of COVID-19.
	I. Short Term Experts as follows:	I. Short Term Experts as follows:
	1. Chief Advisor/Water Supply Policy	1. Chief Advisor/Water Supply Policy
	(23.40MM)	(20.33MM)
	2. Vice Chief Advisor/Operation and	2. Vice Chief Advisor/Operation and
	Maintenance of Rural Water Supply	Maintenance of Rural Water Supply
	Facilities 1 (11.84MM)	Facilities 1 (11.84MM)
	3. Rehabilitation of Rural Water Supply	3. Rehabilitation of Rural Water Supply
	facilities 1/Construction supervision 1	facilities 1/Construction supervision 1
	(0.87MM)	(0.87MM)
	4. Hydrogeology 1 (15.03MM)	4. Hydrogeology 1 (15.03MM)
	5. Hydrogeology 2 (8.46MM)	5. Hydrogeology 2 (8.46MM)
	6. Hygiene and Sanitation 1 (9.67MM)	6. Hygiene and Sanitation 1 (9.67MM)
	7. Hygiene and Sanitation	7. Hygiene and Sanitation
	2/Organizational Analysis	2/Organizational Analysis
	1/Monitoring and Evaluation 1	1/Monitoring and Evaluation 1
	(9.00MM)	(9.00MM)

	8. Audit System (2.50M/M)	8. Audit System (2.50M/M)
	9. Labor Management 1 (3.80M/M)	9. Labor Management 1 (2.27M/M)
	10. Society 1/ Organizational Analysis 2/	10. Society 1/ Organizational Analysis 2/
	Monitoring & Evaluation 2	Monitoring & Evaluation 2
	(13.40MM)	(11.50MM)
	11. Operation and Maintenance of Rural	11. Operation and Maintenance of Rural
	Water Supply Facilities 2 / Labor	Water Supply Facilities 2 / Labor
	Management / Society 2 (8.80MM)	Management / Society 2 (8.80MM)
	12. Rural Water Supply (3.17MM)	12. Rural Water Supply (2.23MM)
	13. Organizational Management 2	13. Organizational Management 2
	(2.97MM)	(1.97MM)
	II. Long Term Expert for Piped Water	II. Long Term Expert for Piped Water
	Supply/ Collaboration (23.00MM)	Supply/ Collaboration (23.00MM)
	Input from Uganda	Input from Uganda
	1. Mutiibwa Robert (Principal Water	1. Mutiibwa Robert (Principal Water
	Officer), Project Manager	Officer), Project Manager
	2. Bisoborwa Paul (Social Scientist)	2. Bisoborwa Paul (Social Scientist)
	Liaison Officer - Point water sources	Liaison Officer - Point water sources
	3. Martha Naigaga (EHO)	3. Martha Naigaga (EHO)
	4. Marcia Tusiime (EHO)	4. Marcia Tusiime (EHO)
	5. Nakasagga Jackline (Social Scientist-	5. Nakasagga Jackline (Social Scientist-
	Trainee), Administrator the of Service	Trainee), Administrator the of Service
	Centre	Centre
	6. Kajumba Grace (Graduate Trainee),	6. Kajumba Grace (Graduate Trainee),
	Head Technical Operations of the	Head Technical Operations of the
	Service Centre	Service Centre
	7. Eng. Bateganya David (Senior	7. Eng. Bateganya David (Senior
	Engineer)	Engineer)
	Liaison Officer	Liaison Officer
	8. Katumba Willy (Borehole	8. Katumba Willy (Borehole
	maintenance superintendent)	maintenance superintendent)
	9. Kwagalakwe Asenath (Graduate	9. Kwagalakwe Asenath (Graduate
	Trainee)	Trainee)
	10. Mugeiga Kato (Social Scientist)	10. Mugeiga Kato (Social Scientist)
	Liaison Officer - Piped water schemes	Liaison Officer - Piped water schemes
	11. Alamai Marion (Graduate Trainee ~	11. Alamai Marion (Graduate Trainee ~
	Jan. 2017)	Jan. 2017)
	12. Mukamwiza Hope (Trainee	12. Mukamwiza Hope (Trainee
	Accountant), Accountant of the	Accountant), Accountant of the
	Service Centre	Service Centre
Equipment	1st phase	1st phase
	1. Water Quality Analysis Kit:	1. Procured

	<ul> <li>Spectrophotometer: 1 set</li> <li>Pack test (Iron) (50 pc.): 3 sets</li> <li>E-coli test paper (100 pc.): 3 sets</li> <li>Bacteria (100 pc.): 3 sets</li> <li>Operation and Maintenance Tools for Rural Water Supply:</li> <li>Tool box for U2 hand pump: 32 sets</li> <li>Chain block and tripod: 4 sets</li> <li>GPS portable: 5 sets</li> <li>Copy machines: 2 sets</li> <li>Projector: 1 set</li> <li>Vehicles: 1 station wagon and 1 pickup truck</li> <li>2nd phase</li> <li>Water Quality Analysis material</li> <li>Pack test (Nitrate) (150 pc.): 4 sets</li> <li>Pack test (Nitrate) (50 pc.): 2 sets</li> <li>E-coli test paper (100 pc.): 7 sets</li> <li>Hand pump (U2): 100 sets</li> </ul>	<ol> <li>Procured</li> <li>Procured</li> <li>Procured</li> <li>Procured</li> <li>Delivered to GoU by JICA</li> <li>2nd phase</li> <li>Procured</li> <li>Procured</li> <li>Hand pump (U2): 84 sets</li> <li>Hand pump (U2 extra deep): 33 sets</li> </ol>
Training	Training in Japan and/or a third country	- Hand pump (U3 Modified): 1 sets  The training in Japan and/or a third country was changed to the training in Uganda for increasing the effect of the training. The integrated training in Uganda is proposed and approved in the JCC-7 in January 2020.
Ugandan Side Operational Expenses	<ol> <li>Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)</li> <li>Supply of replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the equipment provided by JICA.</li> <li>Allocation of office space and facilities (office space for JICA experts in Kampala and the target</li> </ol>	1. Allocated including C/P of H&S  2. Replacement of vehicle tires and vehicle routine service will be disbursed from project account.  3. Office space and facilities in Kampala and in Mubende DWO were allocated.

- districts, and other necessary facilities, equipment and materials for administration of the Project)
- 4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)
- 5. Running expenses necessary for the implementation of the Project
- Allocation of necessary human resources to run the Service Centre in target districts
- 4. The costs will be disbursed from the project account.
- 5. The expenses will be disbursed from the project account.

6. Staff of Mubende Service Centre was

allocated.

MWE assigned four coordinators of regional O&M centers (Gulu, Jinja, Masaka, and Mubende).

# 1-2 Progress of Activities

- Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated
  - Baseline survey was implemented.
  - Capacity development strategy was established based on the activities.
  - Progress report (No. 1) was submitted (June 2016).
  - Activities of Output 1 were completed in the 1<sup>st</sup> phase.
- **Output 2A**: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende and Kassanda districts
    - (Activity 2A-1) Formulation of training programs and preparation of pilot subprogram of O&M is completed
    - (Activity 2A-3) a preparation to implement a pilot subprogram on O&M are completed (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot subprogram, and select the target sub-counties and the target WSCs).
    - (Activity 2A-2, 2A-4, and 2A-5) completed.
    - (Activity 2A-6) The budget required to implement the pilot subprogram was documented in the M/M on Decenter 6, 2016.
    - (Activity 2A-7) 96 boreholes were rehabilitated in 9 sub counties in Mubende district and 9 sub counties in Kassanda district.
    - (Activity 2A-9) 36 HPMs (Hand Pump Mechanics) were trained in 18 sub counties in Mubende and Kassanda districts.
    - (Activity 2A-10) The above HPMs were trained through rehabilitation works.
    - (Activity 2A-11) The service center is ordering HPMA (Hand Pump Mechanic Association) to repair hand pumps when customer communities report a defect.
    - (Activity 2A-12) A working meeting was organized for HPMAs to coordinate activities in April 2019.
    - (Activity 2A-13) A supplier of spare parts and the project concluded a supply contract in

Mubende district

- (Activity 2A-14) Project activities and plans were shared and discussed in a TSU meeting in May 2019 in Kampala.
- (Activity 2A-15) The regulation, MOU and contract format were reviewed. They are confirmed consistency and unified.
- (Activity 2A-16) The project team interviewed with the Service Centre staff regarding their current scope of work and responsibility.
- (Activity 2A-17) Project team assisted MWE to draft the budget. The drafted budget was approved by the PS in MWE at the JCC-7 in January 2020.
- (Activity 2A-18) The Accountant and the Assistant Accountant are trained on recording the cash book, balance sheet and management of the bank account book. HTOs learned about the way of repair (technical matter), reporting, and spare parts management. OPS are trained for raise awareness of DDMS though several field trials. Each staff gained knowledge and experience through OJT.
- (Activity 2A-19) The monitoring sheet of the Service Centre will be developed by applying indicator utilized in the districts (JMC). It will be finalized through the discussion in coming JMC meetings.
- (2) Activities for control districts
  - (Activity 2A-1) A training program was formulated to strengthen CBMS (Community Based Maintenance System)
  - (Activity 2A-2) ToT training was conducted for district staff about WSC (Water Sanitation Committee) training and sensitization of water users.
  - (Activity 2A-6) Well diagnosis work was conducted for selected wells for rehabilitation.
  - (Activity 2A-8) HPMA in Kiboga district was re-energized, which was not functioning during the baseline survey.
  - (Activity 2A-10) MoU was signed between HPMA and district local governments regarding the management of the repair toolboxes which were procured in the 1st phase of the project.
  - (Activity 2A-10) MoU was conclude between HPMA and the local governments regarding report system for handpump repair.
- **Output 2B**: A new O&M support system of rural water supply facilities related to user fee collection is formulated.
  - (Activity 2B-1) Trial of mobile money started at 8 sources. As a result, 3 sources can continue. The new trial of fixed award of caretaker is started at 6 sources in June 2020.
  - (Activity 2B-2) Total 15 Sunda have been installed as of the end of September 2021.
  - (Activity 2B-3) Basically, the interval of money collection is 2 months except for the lock down period of COVID-19.
  - (Activity 2B-4) Incentives (small consumer goods) are distributed to Top 5 collection sources and Best Performing source every month from January 2020.
  - (Activity 2B-5) The results and impact of the above trial will be analyzed and summarized.
- Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts
  - (1) Activities of pilot sub program in Mubende district

- (Activity 3-1) Formulation of training materials and training program is completed
- (Activities 3-4, 3-5, and 3-6) Training using above materials are completed in 18 sub-counties in Mubende and Kassanda districts.
- (Activity 3-7) Follow up activities were conducted such as re-sensitization and training of caretakers, meeting with politicians and re-sensitization involving politicians and opinion leaders, consultation with WSC and response to requests for facility malfunction.
- (2) Activities for control districts
  - (Activity 3-1) WSC training program was implemented
  - (Activity 3-2) Training for relevant district staff and sub-county extension workers in target districts were implemented.

# Output 4: Capacity to supervise development of rural water supply facilities is strengthened

- (Activity 4-1) Training materials were almost finalized through discussion between MWE's hydrogeologists and the Japanese expert team.
- (Activity 4-2) The training program implementation method (venue, participants, number of people) is not fixed.
- (Activity 4-3) Project Team conducted the site inspection of rehabilitated facilities with MWE staff, DWO staff, and Sub county staff in Mubende and Kassanda districts.
- (Activity 4-4) Project Team confirmed the all detected flaws were improved.

# **Output 5**: Proposed ODF practices in the selected communities implemented.

- (Activity 5-1) Project Team selected 64 target villages in Mubende and Kassanda districts. (Activity 5-2) Project team with sub county health team conducted stakeholder meeting with sub county authority involving parish level teams to share about project and reflect on relationship and roles per stakeholder.
- (Activity 5-3) Project team conducted baseline survey for selected 64 villages. And in parallel MWE conducted baseline survey. The number of villages of baseline is 150 villages in total.
- (Activity 5-4) Project Team completed CLTS sensitization (triggering to monitoring) and latrine construction demos.
- (Activity 5-5) Lessons learnt were compiled and produced as a booklet including categorized approaches for behavior change and demo latrine designs.

# **Output 6**: Good practices, lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.

- (Activity 6-1) Good practices and Lessons learnt were analyzed based on the end line survey. Several positive impacts are appeared to DDMS.
- (Activity 6-2) Project team reviewed following document; "Guidelines for Implementation of the District Direct Management System -Component: People and Society-", "Guidelines for Implementation of the District Direct Management System -Component: Technical Operations-", "Steps for Implementation of District Direct Management System -Part1 Enrollment-", "Steps for Implementation of District Direct Management System -Part2 Water Source Improvement-", "Management and Implementation guideline for Regional Rehabilitation Centres", and "District Direct Management System management and implementation guideline".

- (Activity 6-4) Project team participated in the World Water Day in Entebbe on March 22nd 2019, which was part of Uganda Water and Environment Week.

The detail of each activity is shown in the annex 1.

# 1-3 Achievement of Output

\*OT: On time, SFL: Schedule for later, DL: Delay

Output/Indicators	Major Results Status*					
Output 1:Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.						
<ul> <li>Baseline survey revealed failure of CBMS.</li> <li>A system was proposed in which District directly manage O&amp;M of water supply facilities (DDMS) and it was decided to test-run the system in Mubende (later divided into Mubende and Kassanda) as a pilot</li> </ul>						
subprogram.						
- Project approach for capacity development on O&M of rural water facilities and	- Necessary documents were prepared as below;	Achieved				
improvement of H&S condition is formulated as document.	<ul> <li>a) Progress Report (No.1) for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (June 2016)</li> <li>b) PDM (ver.2) (approved at 3<sup>rd</sup> JCC on 25 August 2016)</li> <li>c) Technical Note on the Operation and Maintenance System of Rural Water Supply for the Project for Operation &amp; Maintenance for Rural</li> </ul>					
	Water Supply and Improved Hygiene and Sanitation (2 September 2016)  d) Minutes of Meeting on the Discussion of the Second Stage Activities for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (6 December 2016)  e) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)					

Output 2A:	O&M support	system	of rural	water	supply	facilities	in the	public	and	private	sectors	is
	strengthened in	the targ	et distric	ts.								

- 100 boreholes are enrolled to the new O&M system in Mubende and Kassanda, and they are maintained by the operation of the Service Centre. The downtime of the enrolled sources is significantly improved. As a result, the water users can always use safe water.
- Rehabilitation of boreholes are on-going in Kiboga, Mpigi and Butambala with MWE's budget.
- Total 45 staff received ToT for sensitization of water users and WSC

•	Total 70 HPMs (2 HPMs in each sub count			
-	Training program on O&M of rural water supply is formulated.	-	Training program on O&M of rural water supply has been formulated as below;  a) Scope of Works for Training of Trainers on O&M of Rural Water Supply (August 2016)  b) Work Plan (2 <sup>nd</sup> Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)  c) Formulation of materials for ToT for relevant district staff and sub-county staff in control districts. (April 2017)	Achieved
-	More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.	-	The ToT for sensitization of water users and WSC were implemented to District staff in control districts;  a) Mpigi: 3 district staff (19-20 April 2017)  b) Kiboga: 5 district staff (24-25 April 2017)  c) Butambala: 7 district staff (3-4 May 2017)  The ToT for Mubende and Kassanda district staff (8-9 Feb. 2018)  a) Mubende-3 staff (DWO, CAO, ACAO)  b) Kiboga-2 staff (ADWO, ACAO)  c) Mpigi-1 staff (DWO)  d) Butambala-2 staff (DWO, ADWO)  e) 1 Public Health Specialist (TSU)  As ToT for MWE, the review meeting	Achieved (45 people in total)

		Т .		<u> </u>
			for MWE (Ministry of Water and	
			Environment), TSU (Technical Support	
			Unit), and Mubende district were held	
			from 11-12 September 2018. The	
			participants were:	
			a) 10 MWE staff,	
			b) 2 TSU staff,	
			c) 9 Mubende district staff	
-	The water service provider (the Service	-	The service center started the service for	Achieved
	Centre) is established and functioning		Kasambya and Kibalinga sub counties in	
	under the pilot subprogram.		April 2018.	
	1	_	The service center has expanded the	
			service area to cover 8 Sub counties in	
			Mubende district as of October 2018.	
		_	The service center caters for all 18 sub	
			counties in Mubende and Kassanda	
			districts as of May 2019.	
	O&M activities are implemented based on	-	Borehole diagnosis: 896 sites in 18 Sub	On-going
-	•	_	counties of Mubende and Kassanda	On-going
	the annual workplans.			
			districts, 41 sites in Kiboga district, 60	
			sites in Mpigi district, and 31 sites in	
			Butambala were completed.	
		-	Rehabilitation: Project supports 96	
			rehabilitation in Mubende and Kassanda	
			districts. MWE supports the	
			rehabilitation in other three districts. Air	
			lift works were completed in three	
			districts. But pump installation works	
			were delayed because of funding. Works	
			of Kiboga and Butambala districts were	
			completed. Works in Mpigi district has	
			started in September 2020.	
		-	Water Quality Analysis: Project	
			provided the water quality test kit in the	
			1st phase of the Project. Project team	
			learned the usage (January 2018). It	
			remains to establish an equipment rental	
			system between MWE and DWO.	
-	At least 24 boreholes are rehabilitated in	-	Borehole rehabilitation is completed for	Achieved
	target districts.		96 sites including apron and fence. (July	
	-		2019)	
	At least two Hand Pump Mechanics	<b> </b>	Trainings for 2 HPMs from each sub	Achieved

(HPMs) are trained on site in each subcounty.	county (70 HPMs in total) were conducted in Mubende, Kassanda, Kiboga, Mpigi and Butambala in February 2018, November 2018, December 2018 and January 2019).
- HPMAs in the target districts undertake repairs of handpumps.	<ul> <li>In control districts, MoUs between HPMAs and district local governments were signed regarding the management of the repair toolboxes provided by the project (April – May 2017).</li> <li>In control districts, MoUs between HPMAs and the local governments regarding report system of handpump repair were signed (May 2017).</li> <li>Mubende HPMA undertakes repair of hand pumps through the Service Center.</li> <li>Facilities to be repaired by HPMA are under rehabilitation by MWE. HPMS in control districts will start repair work after the rehabilitation.</li> </ul>
- Activities of the service centre monitored at least 5 times during the extension period	<ul> <li>1st monitoring was done in the 2<sup>nd</sup> JMC meeting on 31<sup>st</sup> January 2020.</li> <li>During the COVID-19, the activities are monitored through WhatsApp.</li> </ul>
- Submission of monthly progress report and quarterly performance report on key core activities of the service centre to Joint Management Committee (JMC).	
Output 2B: A new O&M support system of ru formulated.	ural water supply facilities related to user fee collection is
<ul> <li>Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.</li> </ul>	- DDMS+SUNDA is the best solution. It will be proposed at the 8 <sup>th</sup> JCC meeting.
Output 3: Operational and management ca strengthened in the target districts.	apacity of Water and Sanitation Committee (WSC)
	and 100 sources under DDMS and most of them are playing facilities. Their work helps to keep the water source go

condition.

- 45 WSCs in total were trained in Kiboga, Mpigi and Butambala but rehabilitation work has not been completed yet for them to start maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.
- Through the activities of JICA expert on piped scheme, transparency of the contract documents and reports has been maintained, and O&M fee collection has been improved. 6 schemes introduced management contract with the scheme operator (SO). And 4 schemes of them opened the exclusive bank account, then started to save a specific amount of money around 15 to 50 % of revenue a month.
- More than 85% of WSCs which are trained The ToT for sensitization for water users Not and WSC were implemented to Sub-Achieved in the Project are functional. county officers in control districts. a) Mpigi for 19 staff (19-20 April 2017) b) Kiboga for 19 staff (24-25 April 2017) c) Butambala 15 staff (3-4 May 2017) The extension workers that have been trained will be supported to train the WSC in their communities Functionality of trained WSCs (Sep. 2021) a) DDMS (100/100) b) CBMS (7/45) Total (107/145) 73% The O&M of following 6 piped water O&M of piped water supply facilities is Achieved improved where activities are supply facilities were improved through implemented. project activity (September 2017); a) Bukomero T/C (Kiboga District): opened bank account and started to save money b) Kyanamugera RGC (Mubende District): made management contract with SO, opened bank account and save more than 500 **USD** c) Koch-Goma, Kitgum-Matidi (Acholi Sub Region): made management contract with SO, opened bank account and started to save money d) Awere, Corner-Kilak (Acholi Sub

Region): made management

	contract with SO				
Output 4: Capacity to supervise development					
<ul> <li>Training program was formulated to fill the capacity gap of MWE and DWO in planning, designing, bidding and supervision. The training will be implemented in the coming project period.</li> <li>MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise.</li> </ul>					
<ul> <li>More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.</li> <li>Output 5: Proposed ODF practices in the selections.</li> </ul>	<ul> <li>Capacity gaps have been identified by conducting institutional analysis.</li> <li>Training plan is now under preparation.</li> <li>The training is suspended because of COVID-19.</li> </ul>				
It contributed to ODF to arrange effectively	y latrine construction demonstrations, sanitation	•			
<ul><li>and SLTS in addition to CLTS activities. The Proposed methodology to effectively</li></ul>	hese were compiled in the Handbook as a delive  - Activities are implementing in 64	rable. Achieved			
promote ODF are presented and tested.	villages in Mubende district.  a) 18 Sub county meetings are held. b) Baseline survey was completed. c) Triggering was done in 64 villages. d) 1st follow up activities were held in 42 villages. e) 2nd follow up activities were held in 26 villages. f) Sanitation marketing was held in 7 villages. (October 2019) - Activities were completed. (March 2019)				
- The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	<ul> <li>A handbook was produced and approved by MWE including following contents;</li> <li>a) Stakeholder Meeting including 1 good practice and 1 lesson learnt.</li> <li>b) Baseline Survey including 2 good practices.</li> <li>c) Triggering and Sensitization         Activity including 2 good practices and 1 lesson learnt.</li> <li>d) Sanitation Committee Training and the Continuous Activities including 1 good practice and 1 lesson learnt.</li> <li>e) Construction of Demonstrations</li> </ul>	Achieved			

lesson learnt
f) Sanitation Marketing including 1
good practice and 1 lesson learnt
g) School Led Total Sanitation include
1 good practice
h) Follow up MANDONA (FUM)
including 3 good practices and 1
lesson learnt
- This handbook is expected to deliver in
coming workshops for share good
practice and lesson learnt.

**Output 6**: Good practices, lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.

• Project Team participated in events to disseminate the Project activities and mid-term achievement.

• Good practices and lessons learnt in the Project will be compiled and be shared.

-	Lessons learnd and good practice is	-	- They will be documented in the Project		
	documented.		recommendation report.		
-	Recommendations on proposed revisions	-	They will be proposed in the Project	On-going	
	of existing hand books and manuals are		recommendation report.		
	made.				
-	Documented good practice and proposed	-	They are shared in coming workshops	SFL	
	revisions are shared.				
-	At least two times of learning	-	NGO Meeting in Mubende (16th May	SFL	
	opportunities (e.g. workshops) to		2018)		
	disseminate good practices and lessons	-	Team exhibited project activities in		
	learned are organized.		National Hand Washing Day event (15th		
			October 2018).		
		-	Team exhibited project activities in		
			World Water Day event in Entebbe on		
			March 22nd 2019.		
		-	Two times of workshops for promoting		
			DDMS are suspended because of		
			COVID-19.		

# 1-4 Achievement of the Project Purpose

- <u>Indicator No.1</u>: Recent functionality of rural water supply facilities (deep boreholes) in the target districts is 84.6%. The target is 85%. It was almost achieved.

District	Functioning	Non Functioning	Total	Functionality
Mubende	223	9	232	96.1%

Kassanda	143	10	153	93.5%
Kiboga	125	27	145	86.2%
Mpigi	66	44	110	60.0%
Butambala	60	22	82	73.2%
	617	112	729	84.6%

<sup>\*</sup>Uganda Water Supply ATLAS, 30 September 2021

- <u>Indicator No.2</u>: Recent functionality of WSC in the target districts is 87%. The functionality is exceeded the target number of 75%.

	WSC Fu		
District	WSC established	WSC functional	Management
Mubende	443	367	82.8%
Kassanda	295	250	84.7%
Kiboga	233	214	91.8%
Mpigi	521	488	93.7%
Butambala	317	251	79.2%
	1809	1570	86.8%

<sup>\*</sup>Sector Performance Report 2020

- <u>Indicator No.3</u>: The down time of rural water supply facility in the monitored communities in Mubende and Kassanda districts become 3 days or less (mode is 1 day). The down time in Kiboga, Mpigi, and Butambala will be monitored after the above rehabilitation work.
- <u>Indicator No.4</u>: Household access to sanitation facilities with hand washing facilities in the selected villages reached at 18.9% at the end of the intervention. The project purpose is an increase from 4.8% to 13%.
- <u>Indicator No.5</u>: Revision of the guidelines for the O&M rural water supply facilities are proposed in the coming project recommendation report.

# 1-5 Changes of Risks and Actions for Mitigation

- JET resumes the activities in Uganda in September 2021.

# 1-6 Progress of Actions undertaken by JICA

- to be discussed

# 1-7 Progress of Actions undertaken by Gov. of Uganda

- N/A

# 1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

# 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

- N/A

# 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

- N/A

# 2 Delay of Work Schedule and/or Problems (if any)

## 2-1 Detail

- The delay of progress and completion of the Project will influence the roll out plan of DDMS.

### 2-2 Cause

- The dispatch of JET is suspended because of COVID-19 since March 2020. It causes the delay of project activities, however, MWE plans to implement the DDMS rollout plan.
- MWE has embraced DDMS as a guaranteed approach in management of water supply infrastructure in rural areas since 1<sup>st</sup> July 2020.

## 2-3 Action to be taken

- The reviewed guideline "DDMS Management and Implementation guideline" will be approved in JCC.

# 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)

- N/A

# 3 Modification of the Project Implementation Plan

## 3-1 PO

- PO was updated. (See the attached Monitoring Sheet Form 3-3.)

- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - JICA planned to support MWE with procurement of equipment for borehole rehabilitation as COVID-19 Response. JET supports and oversees the implementation.

# 4 Preparation of Gov. of Uganda toward after completion of the Project

- N/A

# Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: The Project for Operation & Main tenance for Rural Water Supply and Improved Hygiene and Sanitation

Implementing Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Environment (MWE)

Ver. 9 April 2021

Target Groups: MWE, RWSS D, District officers in charge of rural water supply and sanitation in the target districts

Period of Project: 5 years from the date when the first JICA Expert is disp atched

**Project Sites**. Kampala (RWSSD) and 5 Districts (Kib oga, Mubende, Kassan da, Butambala and Mpig i district)

Narrativ e Su mma ry	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
Overal Goal Operation & main tenance (O & M) policy and sy stem of rural water supp ly facilities improved by the Central Government are adapted to wide area in U ganda	1. Functionality of rural water supply facilities in the Central Region is improved 2. Households access to latrines and hand washing facilities in the Central Region is increased increased 3. Issuedguidelines are used to inform O&M policy.	1. 2. Sector Performance Report 3. Issued guideliens / proposal of policy change			
Project Purpose O&M system of rural water supply facilities and hygiene and sanitation (H&S) in the target districts, and system of the Central Government relating to O&M are improved	1. Functionality of rural water supply facilities in the target districts is increased from 81% to 85%.  2. The rate of WSC collecting water darges and conducting mainten an ee of rural water supply facility in the target districts is increased from 51% to 70%.  3. The down time of rural water supply facilities is reduced in the target districts.  4. Hou sehold access to saniation facilities with hand washing facilities in the selected villages is increased from 4.8% to 130%.  5. Revision of the guiddines for the O&M rural water supply facilities are proposed in the recommendations.	1. Sector Performance R eport 2~4. Project documents 5. Project recommendation report	■ Policies on rural water supply are not significantly changed ■ Financial resources which are currently allocated to the target districts are not significantly decreased in Central region		
Outputs  1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated	1 Project approæh for capacity develop ment on O&M of rural water facilities and improvement of H&S condition is formulated as document	1 Project documents	Financial resources currently allocated to the target districts are not significantly decreased	■Baseline survey revealed failure of CB MS. ■A system was proposed in which District directly manage O&M of water supply facilities (DDMS) and it was decided to test run the system in Muben de (later divided into Mubende and	

Remarks		
Achievement	Kassanda) as a pilot subprogram.  100 bo reh oles are enrolled to the new O&M system in Mubende and Kassanda, and they are maintained by the op eration of the Service Centre. The do wntime of the enrolled sources is significantly improved. As a result, the water users can always use safe water.  Rehabilitation of bo reholes are on-going in Kibog a, Mpigt and Butamb ala with MWE's budget.  Total 45 staff received ToT for sensitization of water users and WSC  Total 70 HPMs (2 HPMs in each sub-county) were trained.	■ WSCs and caretak ers are trained for around 100 sources under DDMS and most of them are playing their roles in O&M of rural water supp by facilities. Their work helps to keep the water source go od cond ition.  ■ 45 WSCs in total were trained in Kiboga, Mpigi and Butambala but rehabilitation work has not been completed yet for them to start
Important Assumption		
Means of Verification	2-1~7Project documents 2A-8 Monitoring reports 2A-9R ecord of sub mission 2B-1 Documented Best of Practice (BoP)	3-1~2 Project documents
Objectively Verifiable Indicators	2A-1 Training program on O&M of rural water supply is formulated. 2A-2 More than 20 staffs from RWS SD and the target districts incharge of water supply and sanitation receive the ToT. 2A-2 The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 2A-4 O&M activities are implemented based on the annual workplans. 2A-5 At least 24 boreholes are rehabilitated in target districts. A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 2A-7 HPMAs in the target districts undertake repairs of handpumps. 2A-8 Activities of handpumps. 2A-8 Activities of handpumps exerce centre monitored at least 5 times during the extension period at least 5 times during the extension period at quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC). 2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.	3-1 More than 85% of WSCs which are trained in the Project are functional. 3-2 O&M of piped water supply facilities is improved where activities are implemented.
Narrative Summary	2A. O&M support system of rural water supply facilities in the public and private sectors is streng thened in the target districts streng thened in the target districts.  2B. A new O&M support system of rural water supply facilities r dated to user fee collection is formulated.	3. Operational and management capacity of Water and San itatio n Committee (WSC) is streng thened in the target districts

Remarks		
Achievement	maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.  Through the ætivities of JICA expert on piped scheme, transparency of the contract documents and reports has been maintained, and O&M fee collection has been improved. 6 schemes introduced management contract with the scheme op erator (SO). And 4 schemes of them operator the with the scheme per account, then sperific amount of money — aro und 15 to 50% of revenue a month.	■ Train ing program was for mulated to fill the capacity gap of MWE and DWO in planning, designing, bidding and supervision. The training will be implemented in the coming project period. ■ MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise.
Important Assumption		
Means of Verification		4-1 Project documents
Objectively Verifiable Indicators		4-1 More than 12 staff's from RWSSD and the target districts in charge of rural water supply and sanitation complete the training supply and sanitation complete the training
Narrativ e Su mma ry		4. Capacity to supervise development of rural water supply facilities is strengthened

Narrativ e Summa ry	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
5. Proposed ODF practices in the selected communities implemented.	5-1 Proposed methodology to effectively promote ODF are presented and tested. 5-2 The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	5-1~2 Project documents		It contributed to ODF to arrange effectively latrine construction demonstrations, sanitation marketing and SLTS in addition to CLTS activities. These were compiled in the Handbook as a deliverable.	
6. Good practices and lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.	6-1 Lessons learnd and good practice is documented. 6-2 Recommendations on proposed revisions of existing hand books and manuals are made 6-3 Documented good plactice and proposed revisions are shared. 6-4 At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organised.	6-1∼4 Proje¢ documents		■ Project Team participated in events to disseminate the Project activities and mid-term achievement.  ■ Good practices and lessons learnt in the Project will be compiled and be shared.	

He distinct for dought of the control of the contro	Activities	Inputs	uts	Important Assumption
report format for operation of the service center.  2A-17 Support RWSSD for preparing budget request for operation of the service center.	ities for Out put 1]  In pa Working Gro up (WG) to discuss the framework of O&M system of rall water supply disclities and improvement of sanitation neondition with water supply disclities and improvement of sanitation neondition by disclities and improvement of sanitation neondition arise we cising po fiest framework and buys regarding O&M of rural water phy and and sanitation to clarify responsibilities and challenges of mudu chaseline surveys in the target districts  were findings of good practices and lessons karm of rural water supply and diation at the WG and prepare a report of the present situation and diation at the WG and prepare a report of the present situation and ormalate a project approach for capacity development of relevant futurions based on the results of activities 1-2-1-4  must be PDM(ver. 1) and PO(ver. 1)  ities for Out put 2]  Support RWSSD and the pilot districts to conduct preparation of the pilot without the relevant institutions.  Support RWSSD and the pilot district to onduct preparation of the pilot program on O&M (formulate a framework of new O&M system, support RWSSD and the pilot district to onduct preparation of the provider support the management & eartin of the provider support the management & support RWSSD and the pilot district to implement the management & support RWSSD and the pilot district to implement M&E of the pilot subprogram on O&M (stablish water service provider support the management & support the target districts to formulate the annual work plans.  Support the target districts to formulate the annual work plans and rehabilitation, water quality lacities.  Support the trained HPMs to conduct training to HPMs and HPMAs. Support the pilot district to implement M&E of HPMAs to enhance simotion.  Support the pilot district to implement M&E of HPMAs to enhance simotion.  Support the pilot district to implement M&E of HPMAs is decined.  Support the pilot district to implement M&E of the pilot districts to conduct diagnosis and repair and rehabilities.  Support the p	The Japanese sile  1. Personnel:  - Chief Advisor/Rur al Water Supply/Organ ization al Management  - O&M ofR ural Water Supply Facilities (Hand pump)  - Rehabilitation of Rural Water Supply Facilities (Hand pump)/C onstruction  - Hydrogeology  - Hygien e and Sanitation  - O&M ofR ural Water Supply Facilities (Piped water supply) / Project Coordination  - Other experts if necessary  2. Equipment: Office equipment; two vehicles, tool kits, and others  3. Training in Japan and/or a third country  4. Project activities fee	The Ugan dan side  1. Allocation of counterparts and ad ministrative perso mel  - Project Director - Project Manager - Counterp arts  2. Equipment Two vehicles, equipment and materials for administration of the Project  3. Allocation of office space and facilities - Working space for JIC Aexperts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project  4. Counterpart-related costs (including salary, allowance and traveling cost for counterp arts)  5. Runn ing expenses necessary for the implementation of the Project  6. Allocation of necessary human resources to run the service centre in target districts.	

# budgetary stepsofUgandan side by project funds to the project account the Min utes of Meeting dated Dec. The budget for the Project to be borne by the Ug and an side is MWE and the Project Team have Bank account for the project was Allocation and disbursement of Is sues and Countermeas ures> opened (8th September 2017). is ex ecuted on 18th October. 6, 2016 witnessed by JICA. made an agreement on the Pre-Conditions secured Run a trial on an incentive and for reward system for WSCs and caretakers 3-5 Support the pilot district to implement awareness campaign to water users in Run a trial on mobile money transfer in the selected project communities. 4-4 Implement M&E of supervision activities for borehole drilling, construction, 3-7 Support the target districts to take corrective actions based on the results of of construction and in stallation of hand pumps, etc.) to RWSSD and DWOs. customize of han dpump facility resistant to poor water quality, supervision 3-3 Support the target districts to implement monitoring and evaluation (M&E) 5-1 Project Team selects target villages and schools for CLTS sensitization and Compile the individual performance of 2B-1 to 2B-4 and determine the 5-5 Project Team compiles lessons learnt including categorized approaches for 4-1 Formulate training program (e.g. steps and techniques for borchole siting, 3-2 Su pport the target districts to implement capacity development of WSCs 5-3 Project Team conducts a baseline survey at selected sites. 5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and 2A-19 Mon itor the work un der 2A-18 based on the monitoring check sheets. 5-2 Project Team makes a roll-out program and coordinates with Sub-county 3-4 Support the pilot district to implement regeneration of WSCs in the pilot Run a trial on an automated collection system in the selected project Run a trial on reducing the frequency of manual water fee collection. 2A-18 Train the Service Centre staff on key core activities (administrative, 4-3 Support RWSSD and the target districts to implement supervision of 3-1 Support the target districts to formulate the WSC training program finance, technical, so ciety and people) of the Service Centre. 3-6 Su pport WSCs to implement M&E of the pilot subprogram. 4-2 Implement the training program to RWSSD and DWOs. target demo sites for latrine construction in Mubende borehole drilling, construction, and rehabilitation. in the selected project communities. latrine construction demos. [Activities for Out put 4] [Activities for Out put 3] [Activities for Out put 5] the pilot subprogram. of WSCs activities and rehabilitation. communities. best practices. subprogram. staff. 2B-3 2B-4

behavior change and demo latrine designs as documents from the imp lemented interventions.	[Activities for Out put 6] 6-1 Summarize good practices and less ons learn t from the activities related to Outputs 2~5. 6-2 Propose revision of the existing hand books and training manuals regarding O & M based on the activities of Outputs 2~5 6-3 Organize learning platforms to disseminate go od practices and lessons learned obtained at the activity 6-1 6-4 Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector.	

Solution Monitoring Dated: April 2021 Fa PDMVer 5 enss Remarks 8 9 10 Project Title: The Project for Operation & Main tenance for Rural Water Supply and Improved Hygiene and Sanitation and Sanitat 3 4 5 6 7 8 9 10 11 12 Actual Plan Actual Plan Actual Plan
Actual
Plan
Actual
Plan
Actual
Actual
Plan
Actual Vice Chief Advisor / Operation and Maintenance of Rural Water Supply Society 1 / Organizational Analysis 2 / Monitcring & Evaluation 2 INPUTS Chief Advisor / Water Supply Policy Organizational Management2 Labor Management1 Rural Water Supply Fadii ties Expert

		Plan/	1900	Responsible Organization	[
	ACTIVITIES	Actual 3	4 5 6 7 8 9 10 11 12 1 2 3 4 6	Achievements Cour	eæures
Outp	Output 2A: O&M support system of rural water su pply facilities in the		public and private sectors is strengthened in the target districts.	ts.	
40	Hold a periodic meeting with all TSUs to share progress, ideas, and issues	Plan		-	
2A-14		Actual			
27 15	_	Plan			
CH-H2	regulations, manuals, work flow etc).	Actual			
27 16	Draw up monitoring check shects and progress report and perform ance	Plan			
0 - <del>V</del> - 10	reportform at for operation of the service center.	Actual			
27 17	+	Plan			
/- <del>-</del>	center.	Actual			
0 7 4 0	Train the service centre staff on key core activities (administrative, finance,	Plan			
0 - <del>V</del> 7	technical, society and people) of the service centre.	Actual			
7 40	took look saistinom of no board 10 VC advan last of advantage of	Plan			
2H-13	ZA-13 INDITION LIE WOLK UITGE ZA-10 LASEU OILUIE IIIDITION UIEUK SIEEB.	Actual			
Outp	Output 2B: A new O&M su pport system of ru ral water supply facilities related to u ser fee $ \infty$ llection is form ulated.	dilitiesr	elated to u ser fee collection is form ulated.		
0	Control of the contro	Plan			
- - - - -	Kuna inaron modre money ranska mine selected project communities.	Actual			
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### TO CR of JICA UGANDA OFFICE

### PROJECT MONITORING SHEET

Project Title: The Project for Operation & Maintenance for Rural Water Supply and

Improved Hygiene and Sanitation

Version of the Sheet: Ver. 10 (June 2022)

Name: Joseph Oriono Eyatu

**Title:** Project Director **Name:** Kazumi Matsuda

Title: Chief Advisor

Submission Date: June 2022

### I. Summary

### 1 Progress

### 1-1 Progress of Inputs

Inputs	Plan as of June 2022	Actual as of June 2022
Experts	Input from Japan	Input from Japan
	Total: 135.70MM/135.70MM (100%)	Total: 135.70MM/135.70MM (100%)
	1st Phase 27.17MM/27.17MM(100%)	1st Phase 27.17MM/27.17MM(100%)
	2 <sup>nd</sup> Phase 99.43MM/99.43MM(100%)	2 <sup>nd</sup> Phase 99.43MM/99.43MM(100%)
	3 <sup>rd</sup> Phase 9.10MM/9.10MM(100%)	3 <sup>rd</sup> Phase 9.10MM/9.10MM(100%)
		NOTE: From March 2020 to August 2021,
		JET supports Uganda remotely under the
		influence of COVID-19.
	I. Short Term Experts as follows:	I. Short Term Experts as follows:
	1. Chief Advisor/Water Supply Policy	1. Chief Advisor/Water Supply Policy
	(22.50MM)	(22.50MM)
	2. Vice Chief Advisor/Operation and	2. Vice Chief Advisor/Operation and
	Maintenance of Rural Water Supply	Maintenance of Rural Water Supply
	Facilities 1 (11.83MM)	Facilities 1 (11.83MM)
	3. Rehabilitation of Rural Water Supply	3. Rehabilitation of Rural Water Supply
	facilities 1/Construction supervision 1	facilities 1/Construction supervision
	(0.87MM)	(0.87MM)
	4. Hydrogeology 1 (15.03MM)	4. Hydrogeology 1 (15.03MM)
	5. Hydrogeology 2 (8.47MM)	5. Hydrogeology 2 (8.47MM)
	6. Hygiene and Sanitation 1 (9.67MM)	6. Hygiene and Sanitation 1 (9.67MM)
	7. Hygiene and Sanitation	7. Hygiene and Sanitation
	2/Organizational Analysis	2/Organizational Analysis
	1/Monitoring and Evaluation 1	1/Monitoring and Evaluation 1
	(9.00MM)	(9.00MM)

Audit System (2.50M/M) 8. Audit System (2.50M/M) 9. Labor Management 1 (2.27M/M) Labor Management 1 (2.27M/M) 10. Society 1/ Organizational Analysis 2/ 10. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 Monitoring & Evaluation 2 (12.47MM)(12.47MM)11. Operation and Maintenance of Rural 11. Operation and Maintenance of Rural Water Supply Facilities 2 / Labor Water Supply Facilities 2 / Labor Management / Society 2 (9.80MM) Management / Society 2 (9.80MM) 12. Rural Water Supply (5.63MM) 12. Rural Water Supply (5.63MM) 13. Organizational Management 2 13. Organizational Management 2 (2.67MM)(2.67MM)II. Long Term Expert for Piped Water II. Long Term Expert for Piped Water Supply/ Collaboration (23.00MM) Supply/ Collaboration (23.00MM) Input from Uganda Input from Uganda 1. Mutiibwa Robert (Principal Water 1. Mutiibwa Robert (Principal Water Officer), Project Manager Officer), Project Manager 2. Bisoborwa Paul (Social Scientist) 2. Bisoborwa Paul (Social Scientist) Liaison Officer - Point water sources Liaison Officer - Point water sources 3. Martha Naigaga (EHO) 3. Martha Naigaga (EHO) 4. Marcia Tusiime (EHO) 4. Marcia Tusiime (EHO) 5. Nakasagga Jackline (Social Scientist-5. Nakasagga Jackline (Social Scientist-Trainee), Administrator the of Service Trainee), Administrator the of Service Centre Centre 6. Kajumba Grace (Graduate Trainee), 6. Kajumba Grace (Graduate Trainee), Head Technical Operations of the Head Technical Operations of the Service Centre Service Centre 7. Eng. Bateganya David (Senior 7. Eng. Bateganya David (Senior Engineer) Engineer) Liaison Officer Liaison Officer 8. Katumba Willy (Borehole 8. Katumba Willy (Borehole maintenance superintendent) maintenance superintendent) 9. Kwagalakwe Asenath (Graduate 9. Kwagalakwe Asenath (Graduate Trainee) Trainee) 10. Mugeiga Kato (Social Scientist) 10. Mugeiga Kato (Social Scientist) Liaison Officer - Piped water schemes Liaison Officer - Piped water schemes 11. Alamai Marion (Graduate Trainee ~ 11. Alamai Marion (Graduate Trainee ~ Jan. 2017) Jan. 2017) 12. Mukamwiza Hope (Trainee 12. Mukamwiza Hope (Trainee Accountant), Accountant of the Accountant), Accountant of the Service Centre Service Centre **Equipment** 1<sup>st</sup> phase 1<sup>st</sup> phase 1. Water Quality Analysis Kit: 1. Procured

	- Spectrophotometer: 1 set - Pack test (Iron) (50 pc.): 3 sets - E-coli test paper (100 pc.): 3 sets - Bacteria (100 pc.): 3 sets 2. Operation and Maintenance Tools for Rural Water Supply: - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets 3. GPS portable: 5 sets 4. Copy machines: 2 sets 5. Projector: 1 set 6. Vehicles: 1 station wagon and 1 pickup truck  2nd phase 1. Water Quality Analysis material - Pack test (Nitrate) (150 pc.): 4 sets - Pack test (Nitrate) (50 pc.): 2 sets - E-coli test paper (100 pc.): 7 sets 2. Hand pump (U2): 100 sets	<ol> <li>Procured</li> <li>Procured</li> <li>Procured</li> <li>Procured</li> <li>Delivered to GoU by JICA</li> <li>2nd phase</li> <li>Procured</li> <li>Procured</li> <li>Hand pump (U2): 84 sets         <ul> <li>Hand pump (U2 extra deep): 33 sets</li> <li>Hand pump (U3 Modified): 1 sets</li> </ul> </li> <li>3rd phase</li> <li>Hand pump material, equipment, vehicles had been procured by JICA directly as the component of COVID-19 response.         <ul> <li>(March 2022)</li> </ul> </li> </ol>
Training	Training in Japan and/or a third country	<ul> <li>The training in Japan and/or a third country was changed to the training in Uganda for increasing the effect of the training. The integrated training in Uganda is proposed and approved in the JCC-7 in January 2020.</li> <li>Management of hand pump repair for the Service Centre Staff</li> <li>Borehole Rehabilitation for the skilled worker</li> </ul>
Ugandan Side	Allocation of counterparts and	Allocated including C/P of H&S
Operational	administrative personnel (Project	
Expenses	Director, Project Manager and Counterparts)	

- 2. Supply of replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the equipment provided by JICA.
- 3. Allocation of office space and facilities (office space for JICA experts in Kampala and the target districts, and other necessary facilities, equipment and materials for administration of the Project)
- 4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)
- 5. Running expenses necessary for the implementation of the Project
- Allocation of necessary human resources to run the Service Centre in target districts

- Replacement of vehicle tires and vehicle routine service will be disbursed from project account.
- 3. Office space and facilities in Kampala and in Mubende DWO were allocated.
- 4. The costs will be mostly disbursed from the project account.
- 5. The expenses will be mostly disbursed from the project account.
- 6. Staff of Mubende Service Centre was allocated.

### 1-2 Progress of Activities

**Output 1**: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated

- The Working Group (WG) was approved in the 1<sup>st</sup> JCC meeting on 18<sup>th</sup> Nov. 2015. WG started the discussion about O&M framework (Activity 1-1). And the WG reviewed Water Act, National Water Policy, National Framework of O&M and other related documents (Activity 1-2).
- Baseline survey was conducted during Dec. 2015 to Jan. 2016 (Activity 1-3). The result was reported (Activity 1-4). The challenges of Community Based Management System (CBMS) were found as follows,
  - > Skills of caretakers were low, and they were not paid by the community
  - Collection amounts and accountabilities of contributions were insufficient by the Water Sanitation Committee (WSC)
  - Insufficient budget, equipment and staff of a sub county level and a district level.
- To solve these challenge, A new system was proposed in which the Central Government directly manage O&M of water supply facilities (DMS: Direct Management System) and it was decided to testrun the system in Mubende (later divided into Mubende and Kassanda) as a pilot subprogram (Activity 1-5).
  - The strategy was documented in the following documents;
    - a) Progress Report (No.1) for the Project for Operation & Maintenance for Rural Water

- Supply and Improved Hygiene and Sanitation (June 2016)
- b) PDM (ver.2) (approved at 3rd JCC on 25 August 2016)
- c) Technical Note on the Operation and Maintenance System of Rural Water Supply for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (2 September 2016).
- d) Minutes of Meeting on the Discussion of the Second Stage Activities for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (6 December 2016).
- e) Work Plan (2nd Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)
- The pilot subprogram was added in the PDM (ver. 2) (Activity 1-6).
- **Output 2A**: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts
  - Total 45 staff of Ministry of Water and Environment (MWE) and District Water Office (DWO) received ToT for sensitization of water users and WSC.
    - ToT (Training of Trainers) manuals were created to develop human resources who can guide the necessary O&M planning at the village level. (Activity 2A-1)
    - The training participants learned about the sensitization of water users and the training for WSC and caretakers. (Activity 2A-2)
  - 99 boreholes were enrolled to the new O&M system (DMS) in Mubende and Kassanda, and they were maintained by the operation of the Service Centre. The downtime of the enrolled sources has been significantly improved. As a result, the water users can always use safe water.
    - In the pilot sub program, to overcome the weaknesses of CBMS, the Service Center was established in Mubende district to guide and support the O&M activities of the community. (Activity 2A-3)
    - The Service Center continued to operate with the support of the project and was able to acquire the technical and management ability to respond and repair normal breakdowns of hand pumps in one day. (Activities 2A-4)
    - The performance of the Service Centre was monitored from the perspectives of repair work, spare parts replenishment and management, accounting and finance. (Activity 2A-5).
  - 96 boreholes were rehabilitated in Mubende and Kassanda districts.
    - All the point water sources including shallow wells were assessed by the project team. It was realized that most of the shallow wells have a water quality problem. (Activity 2A-6)
    - ➤ Of the above water sources, 96 deep boreholes were rehabilitated that are suitable for joining to DMS. (Activity 2A-7)

- Total 70 HPMs (2 HPMs in each sub county) were trained.
  - ➤ In order to contribute to the strengthening of HPMA, the HPM trainings were conducted in collaboration with HPMA. (Activity 2A-8)
  - Project team supported HPM training in all the target districts. Each training were 10 days including lectures and practical trainings. (Activity 2A-9)
  - The trained HPMs were engaged in hand pump repairs in their respective sub-counties. (Activity 2A-10)
  - The Service Centre supported the dispatch management of HPMs under the HPMA. (Activity 2A-11)
  - The Service Centre monitored performances of repair work done by HPM. They have the skills to handle all types of repairs. (Activity 2A-12)
- Supply chain of spare parts were improved in Mubende and Kassanda districts
  - The Service Center managed consumptions and supplies of the spare parts replaced at each water source, so that the necessary spare parts can be delivered immediately after a breakdown occurs. (Activity 2A-13)
- The concept of DMS was shared and discussed to TSU.
  - TSU members joined meetings (JCC meeting, district advocacy meeting, etc.) and shared the knowledge of O&M of rural water supply facilities with the Project Team. (Activity 2A-14)
- The activities of the Service Centre were supported and monitored by the Project Team.
  - ➤ The required guidelines and manuals to operate the Service Centre were prepared and revised through the activities. (Activity 2A-15)
  - The report format to the Joint Management Committee (JMC) was prepared by the Project Team. (Activity 2A-16)
  - The Project Team supports budgeting to implement the related activities with DMS. The budget got the approval in the 7<sup>th</sup> JCC meeting in January 2020. (Activity 2A-17)
  - The staff of the Service Centre continuously received the OJT until the end of the Project. (Activity 2A-18)
  - Their performances were monitored monthly. (Activity 2A-19)
- **Output 2B**: A new O&M support system of rural water supply facilities related to user fee collection is formulated.
  - DMS needs to transfer the collected contributions to the Service Center, but it turned out that reducing the collection cost by visiting each community was a challenge.
  - To find a suitable method, four approaches were tried as follows,

- Use of mobile money transfer from caretakers to the Service Centre (Activity 2B-1): It was difficult to continue. The main reason was the incovinience of no mobile money agents nearby.
- An automated collection system (Sunda system) was installed at 50 sources (Activity 2B-2): The water users welcomed the system because of the fairness and transparency of their payment. As a result, the contribution amount doubled compared to before the installation.
- Considering the fuel cost, it is necessary to reduce the frequency of collection to once every six months but the challenge remained that the collected amount could not cover the cost of repairs. (Activity 2B-3)
- Figure Giving incentive to caretakers and WSC members were effective to increase the collection. But the increase amount was not sufficient to prepare the product such as soaps and buckets. (Activity 2B-4)
- ➤ It was concluded that installation of Sunda provided the solution to collect the user contributions. (Activity 2B-5)

**Output 3**: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts

- Training program using Trainings of Trainers (ToT) for DWO and sub county extension workers and training program for WSCs and caretakers were formulated. (Activity 3-1)
- Project team supported DWOs and sub counties in Mpigi, Butambala and Kiboga districts to implement WSC trainings at 45 communities from November 2018 to January 2019. (Activity 3-2)
- Monitoring of the 45 communities was done in February 2022. The reasons of non-active WSCs were analyzed. (Activity 3-3)
- The activities to regenerate WSCs in Mubende and Kassanda districts were done as the OJT of Community Developing Officers (CDO) and Health Assistants (HA). A total 107 WSCs and 109 Caretakers were trained. (Activity 3-4)
- The sensitization activities were done as the OJT of Community Developing Officers (CDO) and Health Assistants (HA) from March to July of 2018 and from February to March 2019 in Mubende and Kassanda districts. The 113 communities out of 123 agreed to join DMS. (Activity 3-5)
- Monitoring activities were done from May to October 2018 and from April to May 2019 in Mubende and Kassanda districts. 11 out of 90 sources was found to have the challenge of caretakers. (Activity 3-6). Eventually, 92 out of 105 sources have been in DMS at the end of the Project in June 2022.
- Follow up activities which included re-selections of caretakers and community awareness campaign such as delivering T-shirts and radio talk shows were done. (Activity 3-7)

Output 4: Capacity to supervise development of rural water supply facilities is strengthened

• Training programs were focused on the rehabilitation technology such as borehole camera survey, airlifting and pumping test of borehole and concrete work of apron. Project team arranged the rehabilitation for superintendents and trainees of MWE and DWOs to participate. (Activity 4-1)

- Project team supported the rehabilitations of 96 boreholes (Activity 2A-7). The above technical person received on site trainings of each work procedures as supervisors. (Activity 4-2)
- Project Team conducted the site inspection of rehabilitated facilities with MWE staff, DWO staff, and sub county staff. (Activity 4-3)
- Project Team confirmed that all detected defects of mainly hand pumps and aprons were improved.
   (Activity 4-4)

**Output 5**: Proposed ODF practices in the selected communities implemented.

- Project Team selected 64 target villages in Mubende and Kassanda districts. (Activity 5-1)
- Project team with sub county health team conducted stakeholder meeting with sub county authority involving parish level teams to share about project and reflect on relationship and roles per stakeholder (Activity 5-2).
- Project team conducted baseline survey for selected 64 villages. And in parallel MWE conducted baseline survey. The number of villages of baseline is 150 villages in total. It turned out that only 5.6% of household had a latrine with hand washing facility. (Activity 5-3)
- Project Team completed CLTS including triggering, sensitization, 5 times of follow up activities in 68 villages in Mubende and Kassanda districts from May 2018 to February 2019. In addition, latrine construction demonstrations in 16 villages, School Led Total Sanitation (SLTS) at 8 schools and sanitation marketing in 8 villages were conducted. (Activity 5-4)
- Lessons learnt were compiled and produced as a booklet including categorized approaches for behavior change and demo latrine designs. (Activity 5-5)

**Output 6**: Good practices, lessons learnt in the project and recommendations for a new O&M support system are shared widely with stakeholders in the water and sanitation sector.

- Strengthening a technical management organization (Service Centre) was effective in reducing downtime. However, the collection of contributions from water users was the biggest challenges of O&M because of poor willingness of water users, unfairness of flat rate, insufficient accountability and transparency etc. The project team supported the communities to address these challenges, but it was found the costs for collection was more than the collection amount. The installations of the Sunda system, which is an automatic contribution collection system using mobile money solved the above issues. Especially the charge according with the fetched amount was accepted well by the water users. (Activity 6-1)
- Project team reviewed existing manuals and guidelines and completed the following document as recommendation; "DMS management and implementation guideline" including "Human Resource Manual", and "Internal Auditing Policies and Procurement Manual" (Activity 6-2)
- Project team promoted the documentary video introducing DMS and Sunda technology. (Activity 6-3)
  - The project team used the following opportunities to share the project experiences to MWE's development partners. (Activity 6-4)

- The stake holder meeting with participants from MWE, Mubende district local government and 5 NGOs on 16<sup>th</sup> May 2018.
- ➤ A booth exhibition at National Hand Washing Day event in Fort Portal on 15<sup>th</sup> October 2018.
- A booth exhibition at the World Water Day in Entebbe on March 22<sup>nd</sup> 2019, which was part of Uganda Water and Environment Week.
- Introduction of DMS+Sunda in the monthly WSDPG (Water and Sanitation Developing Partners' Group) working group meeting on 26<sup>th</sup> May 2022.
- ➤ Meeting with MWE and developing partner (GOAL) on 1<sup>st</sup> June 2022.
- Site tour with development partners in Mubende district on 16<sup>th</sup> June 2022.

### 1-3 Achievement of Output

	*OT: On time, SFL: Schedule for	later, DL: De
Output/Indicators	Major Results	Status*
Output 1:Strategy for capacity development in H&S condition is formulated.	O&M of rural water supply facilities and imp	provement o
- Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document.	<ul> <li>The rural water supply facilities are managed under the responsibilities of communities. The system is called CBMS (Community Based Management System). They are administered by the sub county extension workers like CDO (Community Developing Officer) and HA (Health Assistant). But their resources are not sufficient because of the following reason,</li> <li>a) Shortage of human resources and lack of transportation</li> <li>b) Too many facilities are spread in the whole area of the sub county</li> <li>c) The budget line of the central government and the local government are separated.</li> <li>Considering the project structure, our</li> </ul>	Achieved
	- Considering the project structure, our counterpart in the Ministry of Water and Environment (MWE) decided to establish the Service Centre in Mubende which can provide direct support to community.	
Output 2A: O&M support system of rural w strengthened in the target districts.		te sectors i
- Training program on O&M of rural water supply is formulated.	- Training program on O&M of rural water supply has been formulated as below;	Achieved

	<ul> <li>a) Scope of Works for Training of Trainers on O&amp;M of Rural Water Supply (August 2016)</li> <li>b) Work Plan (2<sup>nd</sup> Edition) for the Project for Operation &amp; Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)</li> <li>c) Formulation of materials for ToT of DMS and CBMS for relevant district staff and sub-county staff.</li> </ul>	
- More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.	- The ToT for sensitization of water users and WSC were implemented to District staff in control districts;  a) Mpigi: 3 district staff (19-20 April 2017)  b) Kiboga: 5 district staff (24-25 April 2017)  c) Butambala: 7 district staff (3-4 May 2017)  - The ToT for Mubende and Kassanda district staff (8-9 Feb. 2018)  a) Mubende-3 staff (DWO, CAO, ACAO)  b) Kiboga-2 staff (ADWO, ACAO)  c) Mpigi-1 staff (DWO)  d) Butambala-2 staff (DWO, ADWO)  e) 1 Public Health Specialist (TSU)  - As ToT for MWE, the review meeting for MWE (Ministry of Water and Environment), TSU (Technical Support Unit), and Mubende district were held from 11-12 September 2018. The participants were:  a) 10 MWE staff,  b) 2 TSU staff,	Achieved (45 people in total)
- The water service provider (the Service Centre) is established and functioning under the pilot subprogram.	<ul> <li>c) 9 Mubende district staff</li> <li>The Service Center started the service for Kasambya and Kibalinga sub counties in April 2018.</li> <li>The Service Center has expanded the service area to cover 8 Sub counties in</li> </ul>	Achieved

			Mubende district as of October 2018.	
			The Service Center covered the	
		_		
			operation area of all 18 sub counties in	
			Mubende and Kassanda districts as of	
			May 2019.	
-	O&M activities are implemented based on	-	Borehole diagnosis: 896 sites in 18 Sub	Achieved
	the annual workplans.		counties of Mubende and Kassanda	
			districts, 41 sites in Kiboga district, 60	
			sites in Mpigi district, and 31 sites in	
			Butambala were completed.	
		-	Rehabilitation: Project supports 96	
			rehabilitation in Mubende and Kassanda	
			districts.	
		-	MWE supports the rehabilitation in	
			other three districts. Air lift works were	
			completed in three districts.	
		-	Water Quality Analysis: Project	
			provided the water quality test kit in the	
			1st phase of the Project. MWE staff	
			learned the usage (January 2018). It was	
			used the site assessment by the Service	
			Centre.	
_	At least 24 boreholes are rehabilitated in	-	Borehole rehabilitation is completed for	Achieved
	target districts.		96 sites including apron and fence. (July	
			2019)	
-	At least two Hand Pump Mechanics	_	Trainings for 2 HPMs from each sub	Achieved
	(HPMs) are trained on site in each sub-		county (70 HPMs in total) were	
	county.		conducted in Mubende, Kassanda,	
			Kiboga, Mpigi and Butambala in	
			February 2018, November 2018,	
			December 2018 and January 2019).	
-	HPMAs in the target districts undertake	-	In control districts, MoUs between	Achieved
	repairs of handpumps.		HPMAs and district local governments	
			were signed regarding the management	
			of the repair toolboxes provided by the	
			project (April – May 2017).	
		_	In control districts, MoUs between	
			HPMAs and the local governments	
			regarding report system of handpump	
1				
			renair were signed (May 2017).	l l
		_	repair were signed (May 2017).  Mubende HPMA undertakes repair of	

- Activities of the service centre monitored at least 5 times during the extension period	<ul> <li>1st monitoring was done in the 2<sup>nd</sup> JMC meeting on 31<sup>st</sup> January 2020.</li> <li>During the COVID-19, the activities are monitored monthly through SNS (Social Networking Service).</li> </ul>	Achieved
- Submission of monthly progress report and quarterly performance report on key core activities of the service centre to Joint Management Committee (JMC).	<ul> <li>1st monthly progress report was submitted in the 2<sup>nd</sup> JMC meeting on 31<sup>st</sup> January 2020.</li> <li>The quarterly performance reports were documented by the Administrator. (1<sup>st</sup> and 2<sup>nd</sup> Quarter of 2020)</li> <li>However, the reports were not submitted every month or every quarter. On the other hand, activities of the Service Centre such as maintenances and repairs of water supply facilities, community sensitizations, and money collections were recorded and were shared by email and SNS by the Service Centre.</li> </ul>	Not Achieved
Output 2B: A new O&M support system of rui		1
formulated.	rai water supply facilities related to user fee cor	lection is
-	DDMS+SUNDA is the best solution. It was confirmed the 8 <sup>th</sup> JCC meeting in October 2021.	Achieved
formulated.  - Recommendation on most effective methodology of user fee collections in relation to the type of communities is	- DDMS+SUNDA is the best solution. It was confirmed the 8 <sup>th</sup> JCC meeting in October 2021.	Achieved
formulated.  - Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.  Output 3: Operational and management car	- DDMS+SUNDA is the best solution. It was confirmed the 8 <sup>th</sup> JCC meeting in October 2021.	Achieved

improved where activities are		
•	supply facilities were supported their	
implemented.	management through the activities of the	
	JICA long term expert;	
	a) Bukomero T/C (Kiboga District):	
	opened bank account and started to	
	save money	
	b) Kyanamugera RGC (Mubende	
	District): made management	
	contract with SO, opened bank	
	account and save more than 500	
	USD	
	c) Koch-Goma, Kitgum-Matidi	
	(Acholi Sub Region): made	
	management contract with SO,	
	opened bank account and started to	
	save money	
	d) Awere, Corner-Kilak (Acholi Sub	
	Region): made management	
	contract with SO	
- More than 12 staff from RWSSD and the	- The following staff was trained as a	Achieved
target districts in charge of rural water	supervisor during rehabilitation works.	
target districts in charge of rural water supply and sanitation complete the	supervisor during rehabilitation works,  a) One superintendent of RWSSD of  MWF	
	a) One superintendent of RWSSD of MWE	
supply and sanitation complete the	<ul><li>a) One superintendent of RWSSD of MWE</li><li>b) Three trainees of RWSSD of MWE</li></ul>	
supply and sanitation complete the	<ul> <li>a) One superintendent of RWSSD of MWE</li> <li>b) Three trainees of RWSSD of MWE</li> <li>c) Four young professionals of Mubende</li> </ul>	
supply and sanitation complete the	<ul> <li>a) One superintendent of RWSSD of MWE</li> <li>b) Three trainees of RWSSD of MWE</li> <li>c) Four young professionals of Mubende and Kassanda districts</li> </ul>	
supply and sanitation complete the	<ul> <li>a) One superintendent of RWSSD of MWE</li> <li>b) Three trainees of RWSSD of MWE</li> <li>c) Four young professionals of Mubende and Kassanda districts</li> <li>d) Two DWO staff of MWE</li> </ul>	
supply and sanitation complete the	<ul> <li>a) One superintendent of RWSSD of MWE</li> <li>b) Three trainees of RWSSD of MWE</li> <li>c) Four young professionals of Mubende and Kassanda districts</li> <li>d) Two DWO staff of MWE</li> <li>e) 18 sub county extension workers in</li> </ul>	
supply and sanitation complete the training.	<ul> <li>a) One superintendent of RWSSD of MWE</li> <li>b) Three trainees of RWSSD of MWE</li> <li>c) Four young professionals of Mubende and Kassanda districts</li> <li>d) Two DWO staff of MWE</li> <li>e) 18 sub county extension workers in Mubende and Kassanda districts</li> </ul>	
supply and sanitation complete the	<ul> <li>a) One superintendent of RWSSD of MWE</li> <li>b) Three trainees of RWSSD of MWE</li> <li>c) Four young professionals of Mubende and Kassanda districts</li> <li>d) Two DWO staff of MWE</li> <li>e) 18 sub county extension workers in Mubende and Kassanda districts</li> </ul>	
supply and sanitation complete the training.	<ul> <li>a) One superintendent of RWSSD of MWE</li> <li>b) Three trainees of RWSSD of MWE</li> <li>c) Four young professionals of Mubende and Kassanda districts</li> <li>d) Two DWO staff of MWE</li> <li>e) 18 sub county extension workers in Mubende and Kassanda districts</li> </ul>	Achieved
supply and sanitation complete the training.  Output 5: Proposed ODF practices in the sel	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.	
Supply and sanitation complete the training.  Output 5: Proposed ODF practices in the sel  - Proposed methodology to effectively	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.  - CLTS activities are implementing in 68	
Supply and sanitation complete the training.  Output 5: Proposed ODF practices in the sel  - Proposed methodology to effectively	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.  - CLTS activities are implementing in 68 villages in Mubende and Kassanda	
<ul> <li>supply and sanitation complete the training.</li> <li>Output 5: Proposed ODF practices in the sel</li> <li>Proposed methodology to effectively</li> </ul>	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.  - CLTS activities are implementing in 68 villages in Mubende and Kassanda district.	
Supply and sanitation complete the training.  Output 5: Proposed ODF practices in the sel  - Proposed methodology to effectively	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.  - CLTS activities are implementing in 68 villages in Mubende and Kassanda district. a) 18 sub county meetings are held.	
Supply and sanitation complete the training.  Output 5: Proposed ODF practices in the sel  - Proposed methodology to effectively	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.  - CLTS activities are implementing in 68 villages in Mubende and Kassanda district. a) 18 sub county meetings are held. b) Baseline survey was completed.	
Supply and sanitation complete the training.  Output 5: Proposed ODF practices in the sel  - Proposed methodology to effectively	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.  - CLTS activities are implementing in 68 villages in Mubende and Kassanda district. a) 18 sub county meetings are held. b) Baseline survey was completed. c) Triggering was done in 68 villages.	
<ul> <li>supply and sanitation complete the training.</li> <li>Output 5: Proposed ODF practices in the sel</li> <li>Proposed methodology to effectively</li> </ul>	a) One superintendent of RWSSD of MWE b) Three trainees of RWSSD of MWE c) Four young professionals of Mubende and Kassanda districts d) Two DWO staff of MWE e) 18 sub county extension workers in Mubende and Kassanda districts  ected communities implemented.  - CLTS activities are implementing in 68 villages in Mubende and Kassanda district. a) 18 sub county meetings are held. b) Baseline survey was completed. c) Triggering was done in 68 villages. d) Capacity building for Sanitation	

			f) 13 villages declared ODF, the Project Team supported the procedure.	
	The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	-	A handbook was produced and approved by MWE including following contents;  a) Stakeholder Meeting including 1 good practice and 1 lesson learnt.  b) Baseline Survey including 2 good practices.  c) Triggering and Sensitization Activity including 2 good practices and 1 lesson learnt.  d) Sanitation Committee Training and the Continuous CLTS Activities including 1 good practice and 1 lesson learnt.  e) Construction of Demonstrations including 1 good practice and 1 lesson learnt  f) Sanitation Marketing including 1 good practice and 1 lesson learnt  g) School Led Total Sanitation include 1 good practice  h) Follow up MANDONA (FUM) including 3 good practices and 1 lesson learnt	Achieved
Oı	<b>utput 6</b> : Good practices, lessons learnt in t system are shared widely with stake	_	project and recommendations for a new O ders in the water and sanitation sector.	&M suppor
-	Lessons learnd and good practice is documented.	-	They are summarized in the minutes of final JCC meeting and this monitoring sheet. The detail was documented in the project final report.	Achieved
-	Recommendations on proposed revisions of existing hand books and manuals are made.	-	The final version of related documents of DMS were approved in in the JCC meeting on 22 <sup>nd</sup> June 2022.	Achieved
_	Documented good practice and proposed revisions are shared.	-	A video was created about DMS+Sunda for DPs who are interested in O&M of rural water supply facilities. They are focused on good practices and lessons learned during the pilot project.  JICA Uganda office leads the site visit	Not Achieved

			in Mubende with 5 DPs (ADA,	
			UNHCR, KOICA, Food for Hungry and	
			Achest) in June 2022. They had an	
			opportunity to learn about DMS+Sunda	
			well through the discussions.	
		-	The share of good practices and lessons	
			learnt will be continued by MWE	
			through the rollout phase of	
			DMS+Sunda after the Project.	
-	At least two times of learning	-	Stakeholder meeting with MWE staff,	Achieved
	opportunities (e.g. workshops) to		Mubende DWOs, and 5 NGOs in May	
	disseminate good practices and lessons		2018	
	learned are organized.	-	The exhibition at National Hand	
			Washing Day event in Oct. 2018	
		-	The exhibition at World Water Day	
			event in Mar. 2019	
		-	WSDPG (Water Sanitation	
			Development Partner Group) meeting in	
			May 2022	
		-	Meeting with MWE and DP (GOAL) in	
			Jun. 2022	
		-	WSDPG visit to DMS & Sunda pilot	
			sites in the central region in Jun. 2022	

### 1-4 Achievement of the Project Purpose

- <u>Indicator No.1</u>: The target is 85%. It was achieved.

		Deep boreholes		
District	Functioning	Non Functioning	Total	Functionality
Mubende	223	9	232	96.1%
Kassanda	188	9	197	95.4%
Kiboga	134	27	161	83.2%
Mpigi	72	44	116	62.1%
Butambala	63	21	84	75.0%
TOTAL	680	110	790	86.1%

<sup>\*</sup>Uganda Water Supply ATLAS, 19 June 2022

- <u>Indicator No.2</u>: The target is 70%. It was achieved.

	WSC Fu	ınctional	
District	WSC established	WSC functional	Management
Mubende	443	367	82.8%
Kassanda	295	250	84.7%
Kiboga	233	214	91.8%

Mpigi	521	488	93.7%
Butambala	317	251	79.2%
TOTAL	1809	1570	86.8%

<sup>\*</sup>Sector Performance Report 2020

### Note:

Management= (total communally managed sources with a functioning WSC)/ (total communally managed sources with established WSC)

A WSC is considered functional only if the WSC collect fees or undertake repairs or hold meeting or there is a clean environment/sanitation around the source. In 2015, the option of a "clean environment/sanitation around the source" was added to for considering a WSC functional (MWE, 2017, "WSDB Atlas 2015, Documentation of key indicator calculations Version 201701").

- <u>Indicator No.3</u>: DMS model has succeeded to reduce the down time of rural water supply facility. More than 70% of boreholes have had no breakdown. On the other hand, CBMS required 1-2 days for minor repairs, and 1-2 weeks for major repairs. (End line survey from Dec. 2019 to Jan. 2020)
- <u>Indicator No.4</u>: Household access to sanitation facilities with hand washing facilities in the selected villages reached at 18.9% at the end of the intervention in Feb. 2019. The project purpose is an increase from 4.8% to 13%.
- <u>Indicator No.5</u>: The main DMS operational guideline and annexed Human Resource Manual and Internal Audit Manual were revised by the Project Team. They are approved by the JCC.

### 1-5 Changes of Risks and Actions for Mitigation

- N/A

### 1-6 Progress of Actions undertaken by JICA

N/A

### 1-7 Progress of Actions undertaken by Gov. of Uganda

- N/A

### 1-8 Progress of Environmental and Social Considerations (if applicable)

N/A

## 1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)

- N/A

# 1-10 Other remarkable/considerable issues related/affect to the project (such as other JICA's projects, activities of counterparts, other donors, private sectors, NGOs etc.)

- N/A

### 2 Delay of Work Schedule and/or Problems (if any)

### 2-1 Detail

- N/A

### 2-2 Cause

- N/A
- 2-3 Action to be taken
  - N/A
- 2-4 Roles of Responsible Persons/Organization (JICA, Gov. of Uganda, etc.)
  - N/A
- 3 Modification of the Project Implementation Plan
- 3-1 PO
  - N/A
- 3-2 Other modifications on detailed implementation plan (Remarks: The amendment of R/D and PDM (title of the project, duration, project site(s), target group(s), implementation structure, overall goal, project purpose, outputs, activities, and input) should be authorized by JICA HQs. If the project team deems it necessary to modify any part of R/D and PDM, the team may propose the draft.)
  - N/A
- 4 Preparation of Gov. of Uganda toward after completion of the Project
  - N/A

# Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: The Project for Operation & Main tenance for Rural Water Supply and Improved Hygiene and Sanitation

Implementing Agency: Rural Water Supply and Sanitation Department (RWSSD), Directorate of Water Development (DWD), Ministry of Water and Environment (MWE)

June 2022 Ver. 10

> Target Groups: MWE, RWSSD, District officers in charge of rural water supply and sanitation in the target districts Period of Project: 6.8 years from the date when the first JICA Expert is dispatched

Project Sites. Kampala (RWSSD) and 5 Districts (Kib oga, Mubende, Kassanda, Butambala and Mpig i district)

Objectively Verifiable Indicators
1. Functionality of rural water supply facilities in the Central Reg ion is improved 2. Households access to latrines and hand washing facilities in the Central Region is increased 3. Issuedguidelines are used to inform O&M policy.
1. Functionality of rural water supply facilities in the target districts is increased from 81% to 85%.  2. The rate of WSC collecting water charges and conducting mainten an cof rural water supply facility in the target districts is increased from 51% to 70%.  3. The down time of rural water supply facilities is reduced in the target districts.  4. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%.  5. Revision of the guidelines for the O&M rural water supply facilities are proposed in the recommendations.
1 Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document

2A-1 Training program on O&M of rural water sup py is formulated. 2A-2 More than 20 staffs from RWS SD and the target districts in charge of water sup ply and sanitation receive the ToT. 2A-3 The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 2A-4 O&M activities are implemented based on the annual workplans. 2A-5 At least 24 boreholes are rehabilitated in target districts. 2A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 2A-7 HPMAs in the target districts undertake repairs of fhandp umps. 2A-7 A Robmassion of monthly progress report and quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC).
2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.
<ul> <li>3-1 More than 85% of WSCs which are trained in the Project are functional.</li> <li>3-2 O&amp;M of piped water supply facilities is improved where activities are implemented.</li> </ul>

Remarks	ticipated during	ng in 68 .assanda ties was /E.	inutes of mitoring all was Ireport cuments the JCC about ho are I water used on learned
Achiev em en t	4-1 The staff (26 in total) participated supervision activities during rehabilitation works.	5-1 CLTS activities are implementing in 68 villages in Mubende and Kassanda district. 5-2 The hard book or ODF activities was produced and approved by MWE.	6-1 They are summarized in the minutes of final JCC meeting and monitoring sheet ver. 10. The detail was documented in the project final report 6-2 The final version of related documents of DMS were approved in in the JCC meeting on 22nd June 20.2. 6-3 A video was created about DMS+Sunda for DPs who are interested in O&M of rural water supply facilities. They are focused on good practices and lessons learned during the pilot project.
Important Assumption			
Means of Verification	4-1 Project documents	5-1~2 Project documents	6-1∼4 Projeα documents
Objectively Verifiable Indicators	4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation $\infty$ mp lete the training	5-1 Proposed methodology to effectively promote ODF are presented and tested. 5-2 The results of addivities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	6-1 Lessons learnd and good practice is documented. 6-2 Recommendations on proposed revisions of existing hand books and manuals are made. 6-3 Documented good plactice and proposed revisions are shared. 6-4 At least two times of learning opp ortunities (e.g. workshops) to disseminate good practices and lessons learned are organised.
Narratív e Su mma 13	4. Capacity to supervise development of rural water supply facilities is strengthened	5. Proposed ODF practices in the selected communities implemented.	6. Good practices and less ons learnt in the project and recommendations for a new O&M support system are shared widely with sakeholders in the water and sanitation sector.

Activities	Inp ut s	uts	Important Assum ption
[A ctivities for Out put 1]  1-1 Set up a Working Group (WG) to discuss the framework of O&M system of rural water supply facilities and improvement of sanitation condition  1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to darify responsibilities and dallenges of stakeholders  1-3 Conduct baseline surveys in the target districts  1-4 Share findings of good practices and lessons kearnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges  1-5 Formulate a project approach for capacity development of rekvant institutions based on the results of activities 1-2-1-4  1-6 Formulate PDM(ver. 1) and PO(ver. 1)  [A ctivities for Out put 2]  2A-1 Formulate training programs on O&M planning to relevant institutions  2A-2 Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions.  2A-3 Support RWSSD and the pilot district to conduct preparation of the pilot subprogram on O&M (formulate a framework of new O&M system, support district local government to draw nor diagness for the pilot subprogram and select the farcet sub-counties and the target district or diagness for the pilot subprogram.	The Japa nese side  1. Personnel: - Ch ief Advisor Rural Water Sup ply Organizational Management - O&M of Rural Water Supply Facilities (Hand pump) - Rehabilitation of Rural Water Sup ply Facilities (Hand pump)/Construction Supervision - Hydrogeology - Hygiene and Sanitation - O&M of Rural Water Supply Facilities (Piped water supply) Facilities (Piped water supply) Project Coordin ation - Other experts if necessary 2. Equipment: Office equipment Office equipment A Training in Lagan and/org third	The Ugandan side  1. Allocation of counterparts and administrative personnel  - Project Director  - Project Manager  - Counterparts  2. Equipment Two vehicles, equipment and materials for administration of the Project  3. Allocation of office space and facilities  - Working space for JICA ex perts in Kampala and the target districts  - Other necessary facilities, equipment and materials for administration of the Project	
2A-4 Support RWSSD and the pilot district to implement the pilot subprogram on O&M (establish water service provider support the management & operation of the provider)  2A-5 Support RWSSD and the pilot district to implement M&E of the pilot subprogram on O&M.  2A-6 Support the tag & districts to formulate the annual work plans and implement activities (e.g. borchole dise nosis and rehabilitation, water quality analysis, etc.) based on the annual work	o untry  A. Project activities fee	4. Co unterpart-related costs (including salary, allowance and traveling cost for counterparts)  5. Running expenses necessary for the implementation of the Project	
plans.  24-7 Project Team undertakes rehabilitation in the target districts.  24-8 Support the target districts to form HPMA.  24-9 Support the target districts to conduct training to HP Ms and HP MAs.  24-10 Support the target districts to conduct diagnos is and repair on rural water supp ly facilities.  24-11 Support the pilot district to guide the man agement of HPMAs to en han æ its function.  24-12 Support the pilot district to implement M&E of HPMAs activities.  24-13 Improve the supply chain of spare parts in the pilot district.  24-14 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities.  24-15 Improve the supply chain of spare parts in the pilot district.  24-16 Draw up monitoring check sheets and progress report and performance report format for operation of the service center.  24-16 Draw up monitoring check sheets and progress report and performance report format for operation of the service center.  24-15 Support RWSSD for preparing budget request for operation of the service center.  24-16 Draw up monitoring check sheets and progress report and performance, technical, society and people) of the Service Center.  24-17 Support RWSSD for preparing budget request for operation of the service contents.  24-19 Mon for the work under 24-18 based on the monitoring check sheets.  24-19 Mon for the work under 24-18 based on the monitoring check sheets.  24-19 Mon a rial on mobile money transfer in the selected project communities.  28-3 Run a trial on an automated collection system in the selected project communities.  28-3 Run a trial on an incentive and/or reward system for WSCs and caretakers in the selected		6. Allocation of necessary human reso urces to run the service centre in target districts.	

### project was opened (8th d is bursement of project by the Ugandan side account is executed on Project to be borne MWE and the Project B ank account for the The budget for the Ugandan side by the Pre-Conditions Team have made an Minutes of Meeting Countermeasures> witnessed by JICA. funds to the project budgetary steps of dated Dec. 6, 2016 September 2017). agreement on the Allo cation and 8th October. is secured <Iss ues and pump facility resistant to poor water quality, supervision of construction and installation of hand 5-5 Project Team compiles lessons learnt including categorized approaches for behavior change and 5-1 Project Team selects target villages and schools for CLTS sensitization and target demo sites for 3-2 Support the target districts to implement capacity development of WSCs. 3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities. 4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation. 6-2 Pro pose revision of the existing hand books and training manuals regarding O&M based on the 6-3 Organize learning platforms to disseminate go od practices and lessons learned ob tained at the 4-1 Formulate training program (e.g. steps and techniques for borch ole siting, customize of hand 5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and latrine construction 6-4 Share good practices and lessons learned from the Project with stakeholders in the water and 2B-5 Compile the individual performance of 2B-1 to 2B-4 and determine the best practices. 6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2~5. 4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, 3-5 Support the pilot district to implement awareness campaign to water users in the pilot 3-4 Support the pilot district to implement regeneration of WSCs in the pilot subprogram. 3-6 Support WSCs to implement M&E of the pilot subprogram. 3-7 Support the target districts to take corrective actions based on the results of M&E5-2 Project Team makes a roll-out program and coordinates with Sub-county staff. demolatrine designs as documents from the implemented interventions. 3-1 Support the target districts to formulate the WSC training program 5-3 Project Team conducts a baseline survey at selected sites. 4-2 Implement the training program to RWSSD and DWOs. pumps, etc.) to RWSSD and DWOs. latrine construction in Mubende. construction, and rehabilitation. project communities. activ ities of Outputs 2~5 [Act wities for Out put 4] [Act wities for Out put 5] [Act ivities for Out put 6] [Activities for Out put 3] sanitation sector subprogram. activity 6-1

Droise Hilla: The Droise of for Onerstion & Maintenance for B	Priget Monitoring Sheet II (Revision of Plan of Operation)		For PDM Ver. 6
TOPE WILLIE HIELDING TO ODE AND IN ANICE INTERPRETATION	or Note in water 1 July 70 to 11 July 10 July 10 to 11 July 10 to 11 July 10 to 11 July 10 to 11 July 10 July 10 to 11 July 10 to 11 July 10 to 11 July 10 to 11 July 10 July 10 to 11 July 10 to 11 July 10 July	2020 2031 2022	Monibring
INPUIS	$\neg$	10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 8 8 9 10 11 11 12 1 2 3 8 1 5 6 7 8 9 10 11 12 1 2 3 8 8 9 8 10 11 12 1 2 3 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Hematiks
Expert			
Chief Advisor / Rural Water Supply / Organizational Management	und unions		
Chief Advisor / Rural Water Supply / Organizational Management	MOWRI Areas		
Chief Advisor /Water Supply Policy	M/SDDA Achen		
Vice ChiefAdvisor/Operation and Maintenance of Rural Water Supply Facilities	USAMI		
Rural Water Supply	NIGALRI Pen		
Rehabilitation of Rural Water Supply facilities 1/Construction supervision TOM IDOX OR Processing 1	ION TOWARD RIVER		
Hydrogeology 1	TWANSH Again		
Hydrogeology 1	OOATA Artusi		
Hydrogeology 2	MOWE Final		
Hydrogeology 2	T.W.H/SH   Plan   T.W.H/SH   Actual   A		
Hygiene and Sanifation 1	HSdOx Action		
Hygiene and Sanitation 2 / Organizational Analysis 1 / Mori bring and Evaluation 1	MIZUYORI		
Audit System	F REUKWA Ketall		
Labor Management1	TAMKA Acual		
Sceiety 1 / Organizational Analysis 2 / Monitoring & Evaluation 2	Kon Actual		
Sceiety 1 / Organizational Analysis 2 / Monitoring & Evaluation 2	SATO Plan		
Organizational Management 2	TANEDA ARBAI		
Organizational Management 2	YMASH Phin		
O&M of Rural Water Supply Facilities 2 / Labor Management 2 / Society	IMO		
Piped Water Supply / Collaboration	Sw.WiOTO [Plan]		
Equi pment			
Water Quality Analysis Kit	Plan.		
Operation and Maintenance Tools for Rural Water Supply	Kitada Pina Pina		
Hardimos	Ariasi Pinn		
	Actual		

STIENTE CA	Expert in Plan/ 2015	2016 2017 2018 2019	2020 2020   2.U.Z.2     Sequental Superation
ACHVIIES	charge Actual 10 11 12 1	11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 3 4 5 6 7 8 9 10 11 12 1 2 3 4 8 9 10 11 12 1 2 3 4 8 9 10 11 12 1 2 3 8 9 10 11 12 1 2 3 8 9 10 11 12 1 3 1 3 8 9 10 11 12 1 3 8 9 10 11 12 1 3 8 9 10 11 12 1 3 1 1 12 1 3 8 9 10 11 12 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Output 1: Strategy for capacity development in OK WofruralWater supply facilities and improvement of HKS condition is	supply facilities and impro		
formulated			
Set up a Working Group (WG) to discuss the framework of 0& M system	nel O No I o		
of rural water supply facilities and improvement of sanitation condition	Actual		
Review existing policy framework and laws regarding O&M of rural water			
	USAM		
to college and control of the last of the			
+3 Conductbaseline surveys in the target districts TAK	TAKAHASH Actual		
Share findings of good practices and lessons leamt of rural water supply	1		
	SUGINO		
Formulate a project approach for capacity development of relevant			
inefficience based on the meritle of activities 1-2-1-4	SUGINO Actual		
7   20   20   20   20   20   20   20   2	Т		
16  Formulate P DM(ver2) and PO(ver2)	SUGINO Actual		
Outbut 2A: Own support system of rural water supply facilities in	ne public and private sector	e sec bis is strengther ear in the tard ex	
districts			
10.00 10.0 1 0.0 1 0000			
24-1 Formulate training programs on O&M planning to relevant institutions	USAM		
Office and an initial temporal districts of the control of the con	П		
	USAM		
development in Down Support System for Lural Water Supply lacilities.	Actual		
Support KWSSD and the priot distinct to conduct preparation of the pilot	G G		
subprogram on O&M (formulate a fram ework of new O&M system,	- Calcio		
supportdistrict local government to draw up ordinances for the pilot	Antend		
subprogram, and select the target sub-counties and the target WSOs.)	Actual		
SupportRWSSD and the pilotdistrict to implement the pilot subprogram	680		
	NIGAURI		
	Actual		
Support BWSS and the ribt die tid to implement MSE of the nild	-		
	NIGAURI Actual		
Supplied at Carry.	Actual		
Supporting parget districts to formulate the annual work plans and	Plan		
24-6 implement activities (e.g. bonehole diagnos is and nehabilitation, water ∪	USAM		
quality analysis, etc.) based on the annual work plans.	Actual		
rioto.	OGATA Plan		
r iojecticanii undei dres i endonicalori ili tire di ga usa ids	TOMIDOK OR Actual		
2A.8 Support the terrest districts to form HDMA	Plan Plan		
deporting angot distribution to form man.	П		
24-9 Support the larget districts to conduct training to HPMs and HPMAs.	USAMI Plan		
	Т		
hed HPMs to conduct diagnosis and repair on rural water	NIGAURI Plan		
supply facilities.	Т		
protostict to guide the management of HPMAs to enhance	NGAUR Plan		
its function.			
2A-12 Support the pilot district to implement M&E of HPMAs activities.	MIZUYORI Plan		
	П		
	USAMI Actual		
	NGA IBI Pian		
issues of on-gang activities	- 1		
	NIGATRI Plan		
regulations, manuals, workflow etb).			
	TANAKA Plan		
report formatfor operation of the service center.	- 1		
	NIGAURI Plan		
Service center.	MONIDI PIE		
	FIRIKAWA Actual		
Ť			
2A-19 Monitor the work under 2A-18 based on the monitoring check sheets.	TAKENA Actual		
	WEDN ACTUAL		
Outbut 2B: A new O&M support system of rural water supply facilities related to userfee collection is formulated	les related to user fee coll	ee collection is form ulated.	
		The state of the s	
2p.1 Run a trial on mobile money transfer in the selected project	KAN Plan		
communities.	Actual		
Run a trial on an automated collection system in the selected project	Micaipi Plan		
com munifies.	Actual		
	П		
26-3   Run a trailon reducing the frequency of manual water fee collection.	NIGAURI Actual		
Runa trial on an incentive and/or reward sustem for WS Csand			
	KAN		
Compile the individual performance of 2B-1 to 2B-4 and determine the			
	MATSUDA Actual		

A control of control	The content of the	ACTWITES charge   Action   Act	5   6   7   8   9   10   11   12   1   2   3   4   5   6   Japan   GO U
A content with the company of the content with the cont	A Control of Control	ional capacity of Water and Sanitation Committee (WSC) is stree	
Any office the control of th	A Continue to the subsequence of the continue to the continu	Support the larget districts to formulate the WSC training program SUGIND	
Page	Application   Control	Support the larget districts to implement capacity development of WSCs HEHIDA	
Winding the companion of the companion	Winding the commonwealth of the commonwealth	Support the larget districts to implement monitoring and evaluation MIZUYORI	
A	The content	thmat, or wood activities of the state of the control of WSOs in the control of t	
10   10   10   10   10   10   10   10	19   19   19   19   19   19   19   19	prior autopagnenii prior tauppagnenii protrite langet districts to implementawareness campaign to water OMI users in the rich sulbringram	
Particulation to the production and production an	100   100	SupportWSCs to implement M&E of the pilot subprogram.	
A continue to the continue t	A content of a content conte	Support the larget districts to take corrective actions based on the KAN results of M&E.	
1979   1974	A continue to the continue t	nent of rural water supply facil	
Content before the b	A continue to sequent function of the continue to the contin	Formulate training program (e.g. steps and techniques for hotehole NIGAURI siting, customize of hand pump facility resistant to poor water quality,	
1	The content processes by a process	supervision of construction and installation of hand pumps, etc.) to	
A contact of the co	1   1   1   1   1   1   1   1   1   1	SupportRWSSD and the target districts to implement supervision of	
1   2   2   2   2   2   2   2   2   2	The state of the control of the co	bordhole drilling, constanction, and rehabilitation.  Implement M& Eof supervision activities for borehole dall ling.  KAN	
A continue of the continue o	10 ct   10 c		
March   Marc	10   10   10   10   10   10   10   10	on citizen tion	
1971   1972	18   18   18   18   18   18   18   18	Project ream selectstaget will ages and schools for CLL's sensitization  MIZUYORI  and target demo sites for latine construction in Mubende.	
11   12   2   2   2   2   2   2   2	1   1   1   1   1   1   1   1   1   1	Project Team makes a roll-out program and coordnates with Sub- counts staff.	
Particular   Par	A consideration of proper concepting and p	Project Team conducts a baseline survey at selected sites.	
The content of the	The continue to a continue t	Project Team conducts CLTS sensification (triggering to monitoring) and HSHIDA terms construction demos	
The continue of the continue		Project Team compiles lessons learnt including categorized approaches	
Figure   F	Mistage   Mist	or or detailed thing and the machine are begins as occurrent is on the machine and activated the machine and activated the machine and activated the properties of the machine and activated	
Mary State   Mar	March of the part of the par	Will for Street and the set differentiation for a set differentiation for the set differentiation of the set o	
Migration Registration (Migration Registration Registration (Migration Registration Registrati	No.	to Outputs 2-5	
MINISTON   Plane   MINISTON	And the black stand decomes the proof practice and the south of communes that the stand of control broad practice and decomes the stand of control broa	Propose revisions of the existing hand books and training manuals regarding O&M based on the activities of Outputs 2~5	
Public   P	MATISTICAL PROJECT WITH PROJE	Organize learning platform sto disseminate good practices and lessons MATSUDA learned obtained at the activity 6-1	
Charlet   Char	Figure   F	Share good practices and lessons learned from the Project with MATSUDA stakeholders in the water and sariablon sector.	
Plant of Desired Plant of Committee         Actual Act	Final Condition of the condition of th		
Figure   Committee   Committ	Activation Committee		
Dealing Plan of Opsizion         Actual	De ball of a Plan of Operation         Plan A Actual A	ACBB A A A A A A A A A A A A A A A A A A	4
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