

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 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.]

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

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

Ver. 1

October, 2015

Project Monitoring Sheet I (Revisoin of Project Design Matrix)

Project Title: The Project for Operation & Maintenance 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: 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)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p> <p>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</p>	<p>Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased</p> <ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from **% to **% Average down time of rural water supply facilities is reduced from ** to ** Household access to latrines in the target districts is increased from **% to **% Household access to hand washing facilities in the target districts is increased from **% to **% 	<p>■ Sector Performance Report</p> <ol style="list-style-type: none"> Sector Performance Report Interview Survey Sector Performance Report Sector Performance Report 	<p>■ 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</p>		
<p>Outputs</p> <ol style="list-style-type: none"> Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts 	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document Training program on O&M of rural water supply is formulated More than ** District officers in charge of water supply complete the training Supplementary documents of O&M are attached to the annual work plan of the target districts O&M activities are implemented based on the annual workplans At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county More than *** of non-functioning hand pumps in the target districts are repaired by HPMs or Hand Pump Mechanic Associations (HPMAs) 	<ol style="list-style-type: none"> Project documents Project documents Project documents Annual Workplan Project documents Project documents MOU 	<p>■ Financial resources currently allocated to the target districts are not significantly decreased</p>		

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Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
3. Operational capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts	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 **% 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			
4. Capacity to supervise development of rural water supply facilities is strengthened	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 Piped 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	<p>Input from Japan</p> <p><u>Total: 43.56MM/115.72MM (37.64%)</u></p> <p>8 Short Term Experts as follows:</p> <ol style="list-style-type: none"> Chief Advisor/Rural Water Supply/Organizational Management (5.97MM) Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities (5.00MM) Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.86MM) Hydrogeology 1 (2.00MM) Hydrogeology 2 (3.33MM) Hygiene and Sanitation 1 (4.53MM) Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (2.00MM) Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (3.87MM) <p>1 Long Term Expert for Piped Water Supply/ Collaboration (16.00MM)</p>	<p>Input from Japan</p> <p><u>Total: 41.65MM/115.72MM (35.99%)</u></p> <p><u>Progress: -1.65% from the plan</u></p> <p>8 Short Term Experts as follows:</p> <ol style="list-style-type: none"> Chief Advisor/Rural Water Supply/Organizational Management (5.53MM) Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities (4.70MM) Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.86MM) Hydrogeology 1 (2.00MM) Hydrogeology 2 (3.03MM) Hygiene and Sanitation 1 (4.53MM) Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (2.00MM) Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (3.00MM) <p>1 Long Term Expert for Piped Water Supply/ Collaboration (16.00MM)</p>

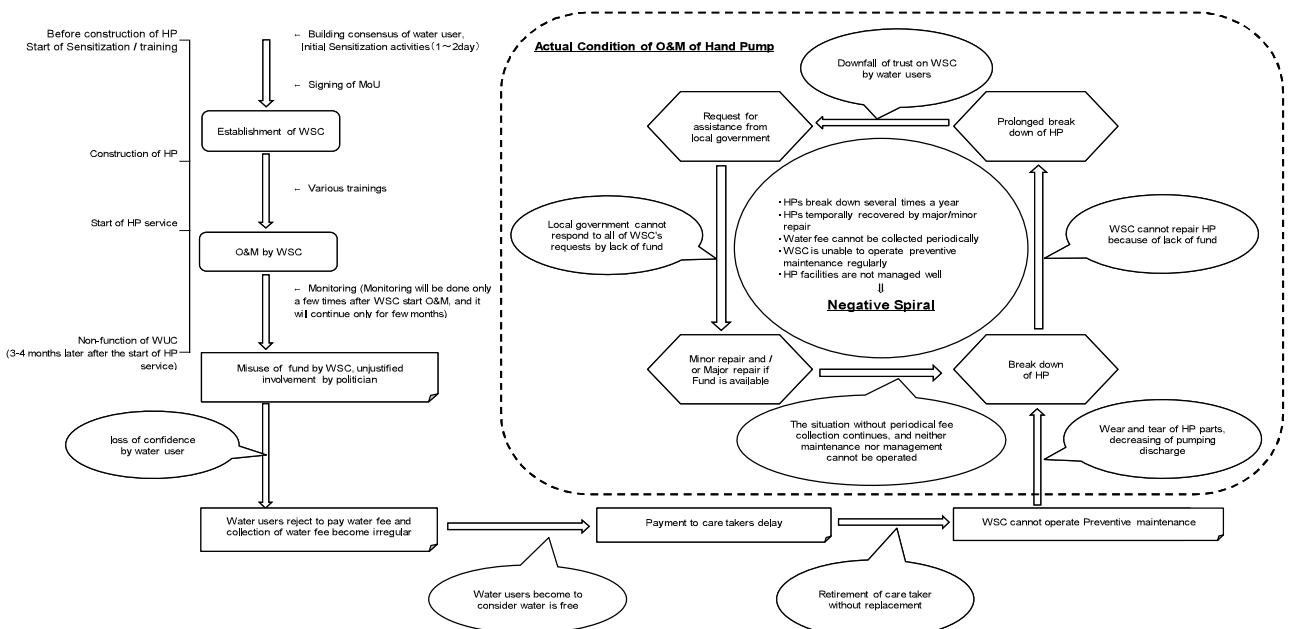
PM Form 3-1 Monitoring Sheet Summary

	<p>Input from Uganda</p> <ol style="list-style-type: none"> 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-Trainee) Liaison Officer 	<p>Input from Uganda</p> <ol style="list-style-type: none"> 1. Mutiibwa Robert (Principal Water Officer) Project Manager 2. Katumba Willy (Borehole maintenance supretendant) 3. Kwagalakwe Asenath (Graduate Trainee) 4. Kajumba Grace (Graduate Trainee) 5. Alamai Marion (Graduate Trainee) 6. Martha Naigaga (EHO) 7. Marcia Tusiime (EHO) 8. Tubenawe Lawrence (EHO Trainee) 9. Alibu Steven (EHO Trainee) 10. Eng. Bateganya David (Senior Engineer) Liaison Officer 11. Adima Israel (Engineer) Liaison Officer 12. Mugeiga Kato (Social Scientist) Liaison Officer – Piped water schemes 13. Bisoborwa Paul (Social Scientist) Liaison Officer – Point water sources 14. Sabila Eva (Social Scientist) 15. Akankwasa Joyce (Social Scientist) 16. Nakasagga Jackline (Social Scientist-Trainee) Liaison Officer
Equipment	<ol style="list-style-type: none"> 1. Water Quality Analysis Kit: 2. Operation and Maintenance Tools for Rural Water Supply: 	All equipment had been procured in 2016 as per Attachment 1.
Training	Training in Uganda is planned to start from April.	Training in Uganda is planned to start from April.
Ugandan Side Operational Expenses	<ol style="list-style-type: none"> 1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts) 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 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 	<ol style="list-style-type: none"> 1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts) 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 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	counterparts) 5. Running expenses necessary for the implementation of the Project
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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 be able to go to medical institutions due to lack 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. coli and other general bacteria. The causal 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 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

3) 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:

- 1) 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 O&M of rural water facilities and improvement of H&S condition is formulated as document.	<ul style="list-style-type: none"> - Necessary documents had already prepared as below; a) Progress Report (No.1) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (June 2016) b) 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) 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 	OT

PM Form 3-1 Monitoring Sheet Summary

	Supply and Improved Hygiene and Sanitation (January 2017)	
Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.		
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 nd Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)	OT
2) More than 20 staffs from RWSSD and the target districts in charge of water supply and sanitation receive the ToT.	- Sub-consultant for ToT is now under the selecting procedure.	OT
3) Collection rate of water fees reaches more than 70% in the selected user communities within the pilot subprogram area.	- N/A	SFT
4) O&M activities are implemented based on the annual work plans.	- N/A	SFT
5) At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.	- N/A	SFT
6) An average of 20 damaged hand pumps are repaired by each trained HPMs per year.	- N/A	SFT
7) Memorandum of Understanding (MoU) between the HPMA and the district local government is signed and renewed in the target districts.	- N/A	SFT
Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.		
1) More than 85% of WSCs which are trained in the Project are performing their roles.	- N/A	SFT
2) O&M of piped water supply facilities is improved where activities are implemented.	- N/A	SFT
Output 4: Capacity to supervise development of rural water supply facilities is strengthened.		
1) More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.	- N/A	SFT
Output 5: H&S in the selected communities is improved.		
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.	- N/A	SFT
2) More than 75% of extension workers (CDO	- N/A	SFT

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 workers (CDO and HA) in the target districts implement awareness campaign for H&S in the selected communities.	- N/A	SFT
4) Household access to latrines in the selected communities is increased from 76 % to 77 %.	- N/A	SFT
5) Household access to hand washing facilities in the selected communities is increased from 28 % to 32 %.	- N/A	SFT
Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.		
1) Documents of good practices and lessons learned are distributed to stakeholders.	- N/A	SFT
2) Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized.	- N/A	SFT

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


Project Monitoring Sheet I (Revision of Project Design Matrix)

Ver. 3
February, 2017

Project Title: The Project for Operation & Maintenance 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: 4 years from the date when the first JICA Expert is dispatched
Project Sites: Kampala (RWSSD) and 4 Districts (Kiboga, Mubende, Butambala and Mpigi district)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased 	<ul style="list-style-type: none"> Sector Performance Report 			
<p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from 73% to 90% Rate of WSC conducting maintenance of rural water supply facility with collected water fees in the target districts is increased from 51% to 60% The annual implementation rate to major repairs requested from WSCs in the target districts is increased from 34% to 40% Household access to latrines in the target districts is increased from 76% to 77% Household access to hand washing facilities in the target districts is increased from 28% to 32% 	<ol style="list-style-type: none"> Sector Performance Report Interview Survey Interview Survey Interview Survey Interview Survey 	<ul style="list-style-type: none"> Polices 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 		
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p>	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document 	<ol style="list-style-type: none"> Project documents 	<ul style="list-style-type: none"> Financial resources currently allocated to the target districts are not significantly decreased 	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.	The activities for this output have been launched after the approval by the 4 th JCC meeting on Feb. 15, 2017.
<p>2. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p>	<ol style="list-style-type: none"> Training program on O&M of rural water supply is formulated More than 20 staffs from RWSSD and the target districts in charge of water supply and sanitation receive the ToT. Collection rate of water fees reaches more than 70% in the selected user communities within the pilot subprogram area. O&M activities are implemented based on 	<ol style="list-style-type: none"> Project documents Project documents Project documents Annual Workplan Project documents Project documents MOU 		Training program on O&M of rural water supply is formulated.	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p>	<p>the annual workplans</p> <p>2-5 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county</p> <p>2-6 An average of 20 damaged hand pumps are repaired by each trained HPMs per year.</p> <p>2-7 Memorandum of Understanding (MoU) between the HPMA and the district local government is signed and renewed in the target districts.</p> <p>3-1 More than 85% of WSCs which are trained in the Project are performing their roles</p> <p>3-2 O&M of piped water supply facilities is improved where activities are implemented.</p>	<p>3-1 Project documents</p> <p>3-2 Project documents</p>			<p>The activities for this output except the piped water supply facilities have been launched after the approval by the 4th JCC meeting on Feb. 15, 2017.</p> <p>The activities for this output have been launched after the approval by the 4th JCC meeting on Feb. 15, 2017.</p>
<p>4. Capacity to supervise development of rural water supply facilities is strengthened</p>	<p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training</p>	<p>4-1 Project documents</p>			
<p>5. H&S in the selected communities is improved.</p>	<p>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</p> <p>5-2 More than 75% of extension workers (CDO and HA) in the target districts are trained on awareness campaign for H&S in the selected communities</p> <p>5-3 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</p> <p>5-4 Household access to latrines in the selected communities is increased from 76 % to 77 %</p> <p>5-5 Household access to hand washing facilities in the selected communities is increased from 28 % to 32 %.</p>	<p>5-1 Project documents</p> <p>5-2 Project documents</p> <p>5-3 Project documents</p> <p>5-4 Interview survey</p> <p>5-5 Interview survey</p>			<p>The activities for this output have been launched after the approval by the 4th JCC meeting on Feb. 15, 2017.</p>
<p>6. Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.</p>	<p>6-1 Documents of good practices and lessons learned are distributed to stakeholders</p> <p>6-2 Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized</p>	<p>6-1 Project documents</p> <p>6-2 Project documents</p>			<p>The activities for this output have been launched after the approval by the 4th JCC meeting on Feb. 15, 2017.</p>

Activities	Inputs	Important Assumption
<p>【Activities for Output 1】</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2~1-4</p> <p>1-6 Formulate PDM(ver1) and PO(ver1)</p> <p>【Activities for Output 2】</p> <p>2-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2-2 Support RWSSD and the target districts to conduct training for capacity development in O&M support system for rural water supply facilities.</p> <p>2-3 Support RWSSD and the target districts to conduct preparation of the pilot sub-program on O&M (formulate a framework of new O&M system, draw up ordinances for the pilot sub-program, and select the target sub-communities and the target WSCs.)</p> <p>2-4 Support RWSSD and the target districts to implement the pilot sub-program on O&M (establish water service provider and train HPMs and caretakers.)</p> <p>2-5 Support RWSSD and the target districts to implement M&E of the pilot sub-program on O&M.</p> <p>2-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2-7 Support the target districts to form HPMAs.</p> <p>2-8 Support the target districts to conduct training to HPMs and HPMAs.</p> <p>2-9 Support the trained HPMs to conduct diagnosis and repair on rural water supply facilities.</p> <p>2-10 Support the target districts to guide the management of HP MAs to enhance its function.</p> <p>2-11 Support the target districts to implement M&E of HP MAs activities.</p> <p>2-12 Improve the supply chain of spare parts in the target districts.</p> <p>2-13 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities</p> <p>【Activities for Output 3】</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the target districts to implement regeneration of WSCs in the pilot sub-program.</p> <p>3-5 Support the target districts to implement awareness campaign to water users</p>	<p>The Japanese side</p> <ul style="list-style-type: none"> - Personnel: <ul style="list-style-type: none"> - Chief Advisor/Rural Water Supply/Organizational Management - Vice Chief Advisor / O & M of Rural Water Supply Facilities 1 - Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 - Rehabilitation of Rural Water Supply facilities 2/Construction supervision 2 - Hydrogeology 1 - Hydrogeology 2 - Hygiene and Sanitation 1 - Hygiene and Sanitation 2 / Organizational Analysis 2 / Monitoring and Evaluation 2 - Society 1 / Organizational Analysis 2 / Monitoring and Evaluation 2 - Audit System - Labor management 1 - O&M of Rural Water Supply Facilities 2 / Labor Management 2 / Society 2 - Piped Water Supply / Collaboration 2. Equipment: <ul style="list-style-type: none"> - Office equipment, two vehicles, tool kits, and others 3. Training in Japan and/or a third country 4. Project activities fee <p>The Ugandan side</p> <ol style="list-style-type: none"> 1. Allocation of counterparts and administrative personnel <ul style="list-style-type: none"> - Project Director - Project Manager - Counterparts 2. Equipment <ul style="list-style-type: none"> - Two vehicles, equipment and materials for administration of the Project 3. Allocation of office space and facilities <ul style="list-style-type: none"> - Office space for JICA 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 counterparts) 5. Running expenses necessary for the implementation of the Project 	<p>■ The budget for the Project to be borne by the Ugandan side is secured</p> <p style="text-align: center;"></p> <p><Issues and Countermeasures> MWE and the Project Team have made an agreement on the budgetary step of Ugandan side by the Minutes of Meeting dated Dec. 6, 2016 witnessed by JICA.</p>

<p>in the pilot subprogram.</p> <p>3-6 Support WSCs to implement M&E of the pilot subprogram.</p> <p>3-7 Support the target districts to take corrective actions based on the results of M&E</p> <p>【Activities for Output 4】</p> <p>4-1 Formulate training program (e.g. steps and techniques for hole siting, customize of hand pump facility resistant to poor water quality, supervision of construction and installation of hand pumps, etc.) to RWSSD and DWOs.</p> <p>4-2 Implement the training program to RWSSD and DWOs.</p> <p>4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.</p> <p>4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.</p> <p>【Activities for Output 5】</p> <p>5-1 Select the communities for H&S promotion</p> <p>5-2 Support the target districts to formulate the annual work plans on the awareness campaign for H&S in the selected communities.</p> <p>5-3 Conduct ToT on awareness campaign for H&S at the Central Government and in the target districts.</p> <p>5-4 Support the target districts to implement awareness campaign for H&S in the selected communities.</p> <p>5-5 Monitor implementation of awareness campaign for H&S and take corrective measures in the selected communities.</p> <p>【Activities for Output 6】</p> <p>6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2-5</p> <p>6-2 Review and propose revision of the existing handbooks and training manuals regarding O&M based on the activities of Outputs 2-5</p> <p>6-3 Organize learning platforms to disseminate good practices and lessons learned obtained at the activity 6-1</p> <p>6-4 Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector.</p>	
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*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: Bukomambi, Butambala, Buvuma, Gomba, Kalangala, Kiboga, Kyankwanzi, Luwero, Lyantonde, Masaka, Mpigi, Mubende, Mukono, Nakaseke, Nakasongo, 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	<p>Input from Japan <u>Total: 76.74MM/116.74MM (65.74%)</u></p> <p>14 Short Term Experts as follows:</p> <ol style="list-style-type: none"> 1. Chief Advisor/Rural Water Supply/ Organizational Management (8.96MM) 2. Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities 1 (6.67MM) 3. Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.87MM) 4. Rehabilitation of Rural Water Supply facilities 2/Construction supervision 2 (2.00MM) 5. Hydrogeology 1 (5.00MM) 6. Hydrogeology 2 (5.33MM) 7. Hygiene and Sanitation 1 (6.54MM) 8. Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (4.00MM) 9. Financial Management (2.00M/M) 10. Labor Management 1 (1.50M/M) 11. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (4.87MM) 	<p>Input from Japan <u>Total: 70.08MM/118.83MM (58.98%)</u> <u>Progress: -6.76% from the plan</u></p> <p>13 Short Term Experts as follows:</p> <ol style="list-style-type: none"> 1. Chief Advisor/Rural Water Supply/ Organizational Management (9.37MM) 2. Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities 1 (5.17MM) 3. Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.87MM) 4. Hydrogeology 1 (3.50MM) 5. Hydrogeology 2 (5.83MM) 6. Hygiene and Sanitation 1 (7.14MM) 7. Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (2.00MM) 8. Financial Management (1.53M/M) 9. Labor Management 1 (1.50M/M) 10. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (4.87MM)

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	<p>12. Operation and Maintenance of Rural Water Supply Facilities 2 / Labor Management / Society 2 (4.00)</p> <p>13. Society 2 / Project coordinator (1.00 - 1st phase)</p> <p>14. Society 2 / Public Relations / Financial Management / Project Coordinator (1.00 – 1st phase)</p> <p>1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Uganda</p> <ol style="list-style-type: none"> 1. Mutibwa 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-Trainee) Liaison Officer 	<p>11. Operation and Maintenance of Rural Water Supply Facilities 2 / Labor Management / Society 2 (3.30)</p> <p>12. Society 2 / Project coordinator (1.00 - 1st phase)</p> <p>13. Society 2 / Public Relations / Financial Management / Project Coordinator (1.00 – 1st phase)</p> <p>1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Uganda</p> <ol style="list-style-type: none"> 1. Mutibwa 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) 6. Kajumba Grace (Graduate Trainee) 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)
Equipment	<p><u>1st phase</u></p> <ol style="list-style-type: none"> 1. Water Quality Analysis Kit: <ul style="list-style-type: none"> - Spectrophotometer: 1 set - Pack test (Iron) (50 pc.): 3 sets - F-coli test paper (100 pc.): 3 sets - Bacteria (100 pc.): 3 sets 2. Operation and Maintenance Tools for Rural Water Supply: <ul style="list-style-type: none"> - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets 	<p><u>1st phase</u></p> <ol style="list-style-type: none"> 1. Procured 2. Procured

PM Form 3-1 Monitoring Sheet Summary

	<p>3. GPS portable: 5 sets 4. Copy machines: 2 sets 5. Projector: 1 set 6. Vehicles: 1 station wagon and 1 pickup truck</p> <p><u>2nd phase</u></p> <p>1. Water Quality Analysis material - Pack test (Nitrate) (150 pc.): 4 sets - Pack test (Nitrate) (50 pc.): 2 sets - F-coli test paper (100 pc.): 7 sets 2. Hand pump (U2): 100 sets</p>	<p>3. Procured 4. Procured 5. Procured 6. Delivered to GoU by JICA</p> <p><u>2nd phase</u></p> <p>1. Procured</p> <p>2. Schedule for later</p>
Training	Training in Japan and/or a third country	Training in Japan on March 2018 is under planning
Ugandan Side Operational Expenses	<p>1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)</p> <p>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.</p> <p>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)</p> <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p>	<p>1. Allocated including C/P of H&S</p> <p>2. Replacement of vehicle tires and vehicle routine service will be disbursed from project account.</p> <p>3. Office space and facilities in Kampala (apartment lease) and in Mubende DWO were allocated.</p> <p>4. The costs will be disbursed from the project account.</p> <p>5. The expenses will be disbursed from the project account.</p>

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 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 HPMA 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 1st 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^F (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

*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.		
1) Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document.	<ul style="list-style-type: none"> - Necessary documents were prepared as below; 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) 	OT
Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.		
1) Training program on O&M of rural water supply is formulated.	<ul style="list-style-type: none"> - Training program on O&M of rural water supply has been formulated as below; a) Scope of Works for Training of 	OT

PM Form 3-1 Monitoring Sheet Summary

<p>and renewed in the target districts.</p>	<ul style="list-style-type: none"> - In control districts, MoUs between HPAs 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 HPAs and the local governments regarding report system of handpump repair were signed (May 2017). 	<p>OT</p> <p>OT</p>
<p>Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.</p>		
<p>1) More than 85% of WSCs which are trained in the Project are performing their roles.</p>	<ul style="list-style-type: none"> - The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts. <ol style="list-style-type: none"> 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) <p>The extension workers that have been trained will be supported to train the WSC in their communities</p> <p>(ToT training in Mubende district was delayed)</p>	<p>OT</p> <p>DL</p>
<p>2) O&M of piped water supply facilities is improved where activities are implemented.</p>	<ul style="list-style-type: none"> - The following 7 piped water supply facilities were improved through project activity (September 2017); <ul style="list-style-type: none"> ▪ Bukomero T/C (Kiboga District) ▪ Kyanamugera RGC (Mubende District) ▪ Unyama, Koch-Goma, Awere, Corner-Kilak, Kitgum-Matidi (Acholi Sub Region) <p>Details of the areas improved are attached as annex 2.</p>	<p>OT</p>
<p>Output 4: Capacity to supervise development of rural water supply facilities is strengthened.</p>		
<p>1) More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.</p>	<p>Capacity gaps have been identified by conducting institutional analysis</p>	<p>SFL</p>
<p>Output 5: H&S in the selected communities is improved.</p>		
<p>1) At least 6 staff from sanitation unit and WCU, and at least 3 staff from each target district complete the</p>	<ul style="list-style-type: none"> - The ToTs for sensitization of H&S were implemented to district staff in control districts; 	<p>OT</p>

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<p>ToT on awareness campaign for H&S in the selected communities.</p>	<p>1. Mpigi for 3 district staff (19-20 April 2017) 2. Kiboga for 5 district staff (24-25 April 2017) 3. Butambala 7 district staff (3-4 May 2017)</p> <p>(ToT training in Mubende district was delayed. ToT focused on ODF is being planned to be implemented in the 4 target districts.)</p>	<p>DL</p>
<p>2) More than 75% of extension workers (CDO and HA) in the target districts are trained on awareness campaign for H&S in the selected communities.</p>	<p>- The ToTs for sensitization of H&S were implemented to sub-county staff in control districts.</p> <p>1. Mpigi 100 % of extension worker (12 out of 12) (19-20 April 2017) 2. Kiboga 100 % of extension worker (12 out of 12) (24-25 April 2017) 3. Butambala 100 % of extension worker (10 out of 10) (3-4 May 2017)</p> <p>(ToT training in Mubende district was delayed . ToT focused on ODF is being planned to be implemented in the 4 target districts.)</p>	<p>OT</p> <p>DL</p>
<p>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.</p>	<p>- N/A</p>	<p>SFL</p>
<p>4) Household access to latrines in the selected communities is increased from 76 % to 77 %.</p>	<p>- Proposed to Delete</p> <p>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.</p>	<p>-</p>
<p>5) Household access to hand washing facilities in the selected communities is increased from 28 % to 32 %.</p>	<p>- Proposed to Delete</p> <p>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.</p>	<p>-</p>
<p>Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.</p>		
<p>1) Documents of good practices and</p>	<p>- N/A</p>	<p>SFL</p>

lessons learned are distributed to stakeholders.		
2) Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized.	- N/A	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 14th August 2017 with the meeting minutes signed on 25th 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 (18th October, 2017).

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.)

- 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 22nd 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 25th 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 6th December, 2016 that the required budget for those activities should be secured by MWE. Basing on the above agreement, the work plan (2nd 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 18th 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 Sheet (Revision of Project Design Matrix)

Ver. 4
October, 2017

Project Title: The Project for Operation & Maintenance 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: 4 years from the date when the first JICA Expert is dispatched
Project Sites: Kampala (RWSSD) and 4 Districts (Kaboga, Mubende, Bulambala and Mpigi district)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased 	<p>■ Sector Performance Report</p> <ol style="list-style-type: none"> Sector Performance Report Interview Survey Interview Survey Interview Survey Interview Survey 	<p>■ Policies on rural water supply are not significantly changed</p> <p>■ Financial resources which are currently allocated to the target districts are not significantly decreased in Central region</p>		
<p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from **% to ***. Rate of WSC conducting maintenance of rural water supply facility with collected water fees in the target districts is increased from 51% to **%. The annual implementation rate to major repairs requested from WSCs in the target districts is increased from 34% to 40%. Household access to latrines in the target districts is increased from ***% to **%. Household access to hand washing facilities in the target districts is increased from **% to ***. 				<p>Indicator No. 1 is proposed from 73% to 85%. Indicator No. 2 is proposed to 60%. Indicator No. 4 and 5 will be proposed to change.</p>
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p> <p>2. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p>	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document 1 Training program on O&M of rural water supply is formulated 2 More than 20 staffs from RWSSD and the target districts in charge of water supply and sanitation receive the ToJ 3 Collection rate of water fees reaches more than 70% in the selected user communities within the pilot sub-program area. 4 O&M activities are implemented based on 	<ol style="list-style-type: none"> Project documents 1 Project documents 2 Project documents 3 Annual Workplan 4 Project documents 5 Project documents 6 Project documents 7 MOU 	<p>■ Financial resources currently allocated to the target districts are not significantly decreased</p>	<p>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.</p> <p>2-1. Training program on O&M of rural water supply was formulated.</p> <p>2-2. Total 15 district staff in control districts received ToJ.</p> <p>2-4. Well diagnosis work</p>	<p>Start of training in Mubende district is delayed.</p>

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p> <p>4. Capacity to supervise development of rural water supply facilities is strengthened</p> <p>5. H&S in the selected communities is improved.</p>	<p>2-5 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county</p> <p>2-6 An average of 20 damaged hand pumps are repaired by each trained HPMs per year</p> <p>2-7 Memorandum of Understanding (MoU) between the HPMA and the district local government is signed and renewed in the target districts.</p> <p>3-1 More than 85% of WSCs which are trained in the Project are performing their roles</p> <p>3-2 O&M of piped water supply facilities is improved where activities are implemented.</p> <p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation to complete the training</p> <p>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</p> <p>5-2 More than 75% of extension workers (CDO and IIA) in the target districts are trained on awareness campaign for H&S in the selected communities</p> <p>5-3 More than 75% of the trained extension workers (CDO and IIA) in the target districts implement awareness campaign for H&S in the selected communities</p> <p>5-4 Household access to latrines in the selected communities is increased from **% to **%</p> <p>5-5 Household access to hand washing facilities in the selected communities is increased from **% to **%.</p> <p>6-1 Documents of good practices and lessons learned are distributed to stakeholders</p> <p>6-2 Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized</p>	<p>3-1 Project documents</p> <p>3-2 Project documents</p> <p>4-1 Project documents</p> <p>5-1 Project documents</p> <p>5-2 Project documents</p> <p>5-3 Project documents</p> <p>5-4 Project documents</p> <p>5-5 Project documents</p> <p>6-1 Project documents</p> <p>6-2 Project documents</p>		<p>was implemented.</p> <p>3-1 Total 53 S/C staff in control districts was trained</p> <p>3-2. 7 piped water supply facilities were improved their O&M</p> <p>5-1. Total 15 district staff in control districts received ToT</p> <p>5-2. Total 100% (34/34) S/C extension workers in control districts were trained.</p>	<p>Start of training in Mubende district is delayed.</p> <p>Training in Japan is planned on March, 2018.</p> <p>Training focused on ODF is planned</p> <p>Indicator No. 5-4 and 5-5 will be proposed to delete.</p>

Activities	Inputs	Important Assumption
<p>[Activities for Output 1]</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2-1-4</p> <p>1-6 Formulate PDM (ver. 2) and PO (ver. 2)</p> <p>[Activities for Output 2]</p> <p>2-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2-2 Support RWSSD and the target districts to conduct training for capacity development in O&M support system for rural water supply facilities.</p> <p>2-3 Support RWSSD and the target districts to conduct preparation of the pilot sub-program on O&M (formulate a framework of new O&M system, draw up ordinances for the pilot sub-program, and select the target sub-units and the target WSCs.)</p> <p>2-4 Support RWSSD and the target districts to implement the pilot sub-program on O&M (establish water service provider and train IIPMs and caretakers.)</p> <p>2-5 Support RWSSD and the target districts to implement M&F of the pilot sub-program on O&M.</p> <p>2-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2-7 Support the target districts to form HPMAs.</p> <p>2-8 Support the target districts to conduct training to IIPMs and IIPMAs.</p> <p>2-9 Support the trained HPMs to conduct diagnosis and repair on rural water supply facilities.</p> <p>2-10 Support the target districts to guide the management of IIPMAs to enhance its function.</p> <p>2-11 Support the target districts to implement M&F of HPMAs activities.</p> <p>2-12 Improve the supply chain of spare parts in the target districts.</p> <p>2-13 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities</p> <p>[Activities for Output 3]</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the target districts to implement regeneration of WSCs in the pilot sub-program.</p> <p>3-5 Support the target districts to implement awareness campaign to water users</p>	<p>The Japanese side</p> <p>1. Personnel</p> <ul style="list-style-type: none"> - Chief/Advisor/Rural Water Supply/Organizational Management - Vice Chief/Advisor / O & M of Rural Water Supply/Facilities 1 - Rehabilitation of Rural Water Supply facilities 1 / Construction supervision 1 - Rehabilitation of Rural Water Supply facilities 2 / Construction supervision 2 - Hydrogeology 1 - Hydrogeology 2 - Hygiene and Sanitation 1 - Hygiene and Sanitation 2 / Organizational Analysis 2 / Monitoring and Evaluation 1 - Society 1 / Organizational Analysis 2 / Monitoring and Evaluation 2 - Audit System - Labor management 1 - O&M of Rural Water Supply/Facilities 2 / Labor Management 2 / Society 2 - Piped Water Supply / Collaboration <p>2. Equipment:</p> <p>Office equipment, two vehicles, tool kits, and others</p> <p>3. Training in Japan and/or a third country</p> <p>4. Project activities fee</p>	<p>The Ugandan side</p> <p>1. Allocation of counterparts and administrative personnel</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Counterparts <p>2. Equipment</p> <p>Two vehicles, equipment and materials for administration of the Project</p> <p>3. Allocation of office space and facilities</p> <ul style="list-style-type: none"> - Office space for JICA experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p>
		<p>■ The budget for the Project to be borne by the Ugandan side is secured</p> <p style="text-align: center;"></p> <p><Issues and Countermeasures></p> <p>MWL and the Project Team have made an agreement on the budgetary steps of Uganda's side by the Minutes of Meeting dated Dec. 6, 2016 witnessed by JICA.</p> <p>Bank account for the project was opened (8th September 2017).</p> <p>Allocation and disbursement of project funds to the project account is executed on 18th October.</p>

<p>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&E</p>			
<p>【Activities for Output 4】 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. 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&E of supervision activities for borehole drilling, construction, and rehabilitation.</p> <p>【Activities for Output 5】 5-1 Select the communities for H&S promotion 5-2 Support the target districts to formulate the annual work plans on the awareness campaign for H&S in the selected communities. 5-3 Conduct job on awareness campaign for H&S at the Central Government and in the target districts. 5-4 Support the target districts to implement awareness campaign for H&S in the selected communities. 5-5 Monitor implementation of awareness campaign for H&S and take corrective measures in the selected communities.</p> <p>【Activities for Output 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 good 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.</p>			

*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: Bukuru, Bukomansimi, Butambala, Buvuma, Gomba, Kalangala, Kalungu, Kayunga, Kiboga, Kyankwanzi, Luwero, Lwengo, Lyantonde, Masaka, Mityana, Mpigi, Mubende, Mukono, Nakaseke, Nakasonjola, 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. 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 <u>Total: 106.37MM/116.74MM (91.12%)</u> 11 Short Term Experts as follows: 1. Chief Advisor/Rural Water Supply/ Organizational Management (16.93MM) 2. Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities 1 (9.50MM) 3. Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.87MM) 4. Hydrogeology 1 (10.00MM) 5. Hydrogeology 2 (8.33MM) 6. Hygiene and Sanitation 1 (9.40MM) 7. Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (7.20MM) 8. Audit System (3.47M/M) 9. Labor Management 1 (1.50M/M) 10. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (6.50MM) 11. Operation and Maintenance of Rural Water Supply Facilities 2 / Labor	Input from Japan <u>Total: 106.67MM/116.74MM (91.37%)</u> <u>Progress: +0.30% from the plan</u> 11 Short Term Experts as follows: 1. Chief Advisor/Rural Water Supply/ Organizational Management (16.93MM) 2. Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities 1 (9.50MM) 3. Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.87MM) 4. Hydrogeology 1 (10.00MM) 5. Hydrogeology 2 (8.33MM) 6. Hygiene and Sanitation 1 (9.67MM) 7. Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (7.23MM) 8. Audit System (3.30M/M) 9. Labor Management 1 (1.50M/M) 10. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (6.67MM) 11. Operation and Maintenance of Rural Water Supply Facilities 2 / Labor

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	<p>Management / Society 2 (9.67MM)</p> <p>1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Uganda</p> <ol style="list-style-type: none"> 1. Mutibwa 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-Trainee) Liaison Officer 	<p>Management / Society 2 (9.67MM)</p> <p>1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Uganda</p> <ol style="list-style-type: none"> 1. Mutibwa 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
<p>Equipment</p>	<p><u>1st phase</u></p> <ol style="list-style-type: none"> 1. Water Quality Analysis Kit: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets 3. GPS portable: 5 sets 4. Copy machines: 2 sets 	<p><u>1st phase</u></p> <ol style="list-style-type: none"> 1. Procured 2. Procured 3. Procured 4. Procured

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	<p>5. Projector: 1 set 6. Vehicles: 1 station wagon and 1 pickup truck</p> <p><u>2nd phase</u></p> <p>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</p> <p>2. Hand pump (U2): 100 sets</p>	<p>5. Procured 6. Delivered to GoU by JICA</p> <p><u>2nd phase</u></p> <p>1. Procured</p> <p>2. Hand pump (U2): 51 sets Hand pump (U2 extra deep): 19 sets Hand pump (U3 Modified): 1 sets</p>
Training	Training in Japan and/or a third country	Training is under planning.
Ugandan Side Operational Expenses	<p>1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)</p> <p>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.</p> <p>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)</p> <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p>	<p>1. Allocated including C/P of H&S</p> <p>2. Replacement of vehicle tires and vehicle routine service will be disbursed from project account.</p> <p>3. Office space and facilities in Kampala (apartment lease until the end of June 2018) and in Mubende DWO were allocated.</p> <p>4. The costs will be disbursed from the project account.</p> <p>5. The expenses will be disbursed from the project account.</p>

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 (Hand Pump Mechanics) are trained in 8 sub counties in Mubende district (Activity 2-9).
- The above HPs 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: 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 O&M of rural water facilities and improvement of H&S condition is formulated as document.	<ul style="list-style-type: none"> - Necessary documents were prepared as below; 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) 	OT

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	<p>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)</p> <p>e) Work Plan (2nd Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)</p>	
<p>Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.</p>		
<p>1) Training program on O&M of rural water supply is formulated.</p>	<p>- Training program on O&M of rural water supply has been formulated as below;</p> <p>a) Scope of Works for Training of Trainers on O&M of Rural Water Supply (August 2016)</p> <p>b) Work Plan (2nd Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017)</p> <p>c) Formulation of materials for ToT for relevant district staff and sub-county staff in control districts. (April 2017)</p>	<p>OT</p>
<p>2) More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.</p>	<p>- The ToT for sensitization of water users and WSC were implemented to District staff in control districts;</p> <ol style="list-style-type: none"> 1. Mpigi – 3 district staff (19-20 April 2017) 2. Kiboga – 5 district staff (24-25 April 2017) 3. Butambala – 7 district staff (3-4 May 2017) <p>- 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:</p> <ol style="list-style-type: none"> 1. 10 MWE staff, 2. 2 TSU staff, 3. 9 Mubende district staff, 	<p>OT</p>
<p>3) The water service provider is established and functioning under</p>	<p>- The service center started the service for Kasambya and Kibalinga sub counties in</p>	<p>OT</p>

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the pilot subprogram.	<p>April.</p> <ul style="list-style-type: none"> - 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 style="list-style-type: none"> - 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) - 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) 	OT
5) At least 24 boreholes are rehabilitated in target districts.	<ul style="list-style-type: none"> - 31 non-functional boreholes have been rehabilitated as of September 2018. 	OT
6) At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.	<ul style="list-style-type: none"> - 2-Week training of HPMs in 8 Sub counties of Mubende. - Training for other HPMs is under planning. 	OT
7) HPMAAs in the target districts undertake repairs of handpumps.	<ul style="list-style-type: none"> - In control districts, MoUs between HPMAAs 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 HPMAAs 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. 	OT OT OT
Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.		
1) More than 85% of WSCs which are trained in the Project are functional.	<ul style="list-style-type: none"> - The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts. <ul style="list-style-type: none"> 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) - The extension workers that have been trained will be supported to train the 	OT

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	<p>WSC in their communities</p> <ul style="list-style-type: none"> - 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. 	
<p>2) O&M of piped water supply facilities is improved where activities are implemented.</p>	<ul style="list-style-type: none"> - The following 7 piped water supply facilities were improved through project activity (September 2017); <ul style="list-style-type: none"> ▪ Bukomero T/C (Kiboga District) ▪ Kyanamugera RGC (Mubende District) ▪ Unyama, Koch-Goma, Awere, Corner-Kilak, Kitgum-Matidi (Acholi Sub Region) <p>Details of the areas improved are attached as annex 2.</p>	OT
<p>Output 4: Capacity to supervise development of rural water supply facilities is strengthened.</p>		
<p>1) More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.</p>	<ul style="list-style-type: none"> - Capacity gaps have been identified by conducting institutional analysis. - Training plan is now under preparation. 	SFL
<p>Output 5: Proposed ODF practices in the selected communities implemented.</p>		
<p>1) Proposed methodology to effectively promote ODF are presented and tested.</p>	<ul style="list-style-type: none"> - Activities are implementing in 64 villages in Mubende district. <ol style="list-style-type: none"> 1. 18 Sub county meetings are held. 2. Baseline survey was completed. 3. Triggering was done in 64 villages. 4. 1st follow up activities were held in 42 villages. 5. 2nd follow up activities were held in 26 villages. 6. Sanitation marketing was held in 7 villages. 	OT
<p>2) The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.</p>	<ul style="list-style-type: none"> - N/A 	SFL
<p>Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.</p>		
<p>1) Documents of good practices and</p>	<ul style="list-style-type: none"> - N/A 	SFL

lessons learned are distributed to stakeholders.		
2) Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized.	<ul style="list-style-type: none"> - NGO Meeting in Mubende (16th May 2018) - Team exhibited project activities in National Hand Washing Day event (15th October 2018). 	OT

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 Activity 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 Activities.
 - 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 HPMA's.
 - (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 HPMA's to enhance its function.
 - (Activity 2-12) Support the pilot district to implement M&E of HPMA's 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&F of the pilot subprogram.

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

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 Sheet I (Revision of Project Design Matrix)

Project Title: The Project for Operation & Maintenance 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: 4 years from the date when the first JICA Expert is dispatched
Project Sites: Kampala (RWSSD) and 4 Districts (Kaboga, Mubende, Bulambala and Mpigi district)

Ver. 5

November, 2018

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased 	<p>■ Sector Performance Report</p> <ol style="list-style-type: none"> Sector Performance Report Project documents Project documents Project documents 	<p>■ Policies on rural water supply are not significantly changed</p> <p>■ Financial resources which are currently allocated to the target districts are not significantly decreased in Central region</p>		
<p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from 81% to 85%. The rate of WSC collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. The downtime of rural water supply facilities is reduced in the target districts. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from **% to **%. 	<p>1 Project documents</p> <ol style="list-style-type: none"> 2-1 Project documents 2-2 Project documents 2-3 Project documents 2-4 Project documents 2-5 Project documents 2-6 Project documents 2-7 Project documents 	<p>■ Financial resources currently allocated to the target districts are not significantly decreased</p>	<p>1. 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.</p> <p>2-1. Training program on O&M of rural water supply was formulated.</p> <p>2-2. Total 15 district staff in control districts received TOT.</p> <p>2-3. The service center has expanded the</p>	
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p> <p>2. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p>	<ol style="list-style-type: none"> 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 staffs from RWSSD 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 				

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p>	<p>2-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 2-7 HPMA's in the target districts undertake repairs of hand pumps.</p> <p>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.</p>	<p>3-1 Project documents 3-2 Project documents</p>	<p>service area to cover 8 Sub counties in Mubende district as of October 2018. 2-4 Well diagnosis work was implemented 2-5. 31 non-functional handpumps have been rehabilitated as of September 2018. 2-6 2-Week training of HPMs in 8 Sub counties of Mubende. 2-7 Mubende HPMA undertakes repair of hand pumps through the Service Center.</p>	<p>3-1. 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. 3-2. 7 piped water supply facilities were improved their O&M</p>	
<p>4. Capacity to supervise development of rural water supply facilities is strengthened</p>	<p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training</p>	<p>4-1 Project documents</p>		<p>5-1 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) 1st follow up activities were held in 42 villages 5) 2nd follow up activities were held in 26 villages.</p>	
<p>5. Proposed ODF practices in the selected communities implemented.</p>	<p>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 CITS interventions.</p>	<p>5-1 Project documents 5-2 Project documents</p>			

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>6. Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector</p>	<p>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</p>	<p>6-1 Project documents 6-2 Project documents</p>		<p>6. Sanitation marketing was held in 7 villages.</p> <p>6-2 Team exhibited project activities in National Hand Washing Day event (15th October 2018)</p>	

Activities	Inputs	Important Assumption
<p>[Activities for Output 1]</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2-1-4</p> <p>1-6 Formulate PDM (ver. 1) and PO (ver. 1)</p> <p>[Activities for Output 2]</p> <p>2-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2-2 Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions.</p> <p>2-3 Support RWSSD and the pilot district to conduct preparation of the pilot sub-program on O&M (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot sub-program, and select the target sub-counties and the target WSCs.)</p> <p>2-4 Support RWSSD and the pilot district to implement the pilot sub-program on O&M (establish water service provider support the management & operation of the provider)</p> <p>2-5 Support RWSSD and the pilot district to implement M&E of the pilot sub-program on O&M.</p> <p>2-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2-7 Project Team undertakes rehabilitation in the target districts.</p> <p>2-8 Support the target districts to form HPMA.</p> <p>2-9 Support the target districts to conduct training to HPMA.</p> <p>2-10 Support the trained HPMA to conduct diagnosis and repair on rural water supply facilities.</p> <p>2-11 Support the pilot district to guide the management of HPMA to enhance its function.</p> <p>2-12 Support the pilot district to implement M&E of HPMA's activities.</p> <p>2-13 Improve the supply chain of spare parts in the pilot district.</p> <p>2-14 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of ongoing activities.</p>	<p>The Japanese side</p> <p>1. Personnel:</p> <ul style="list-style-type: none"> - Chief/Advisor/Rural Water Supply/Organizational Management - O&M of Rural Water Supply Facilities (Hand pump) - Rehabilitation of Rural Water Supply Facilities (Hand pump)/Construction Supervision - Hydrogeology - Hygiene and Sanitation - O&M of Rural Water Supply Facilities (Piped water supply) / Project Coordination - Other experts if necessary <p>2. Equipment:</p> <p>Office equipment, two vehicles, tool kits, and others</p> <p>3. Training in Japan and/or a third country</p> <p>4. Project activities fee</p>	<p>The Ugandan side</p> <p>1. Allocation of counterparts and administrative personnel</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Counterparts <p>2. Equipment</p> <p>Two vehicles, equipment and materials for administration of the Project</p> <p>3. Allocation of office space and facilities</p> <ul style="list-style-type: none"> - Working space for JICA experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p>

<p>Pre-Conditions</p> <p>■ The budget for the Project to be borne by the Ug and an side is secured</p>	<p>→</p>	<p>Activities for Output 3]</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the pilot district to implement regeneration of WSCs in the pilot subprogram.</p> <p>3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram.</p> <p>3-6 Support WSCs to implement M&E of the pilot subprogram.</p> <p>3-7 Support the target districts to take corrective actions based on the results of M&E</p>
<p><Issues and Countermeasures></p> <p>MWI, and the Project Team have made an agreement on the budgetary steps of Uganda side by the Minutes of Meeting dated Dec. 6, 2016 witnessed by JICA.</p> <p>Bank account for the project was opened (8th September 2017).</p> <p>Allocation and disbursement of project funds to the project account is executed on 18th October.</p>		<p>Activities for Output 4]</p> <p>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.</p> <p>4-2 Implement the training program to RWSSD and DWOs.</p> <p>4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.</p> <p>4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.</p>
		<p>Activities for Output 5]</p> <p>5-1 Project Team selects target villages and schools for CLTS sensitization and target demo sites for latrine construction in Mubende.</p> <p>5-2 Project Team makes a rollout program and coordinates with Sub-county staff.</p> <p>5-3 Project Team conducts a baseline survey at selected sites.</p> <p>5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and latrine construction demos.</p> <p>5-5 Project Team compiles lessons learnt including categorized approaches for behavior change and demo latrine designs as documents from the implemented interventions.</p>
		<p>Activities for Output 6]</p> <p>6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2-5.</p> <p>6-2 Review and propose revision of the existing handbooks and training manuals regarding O&M based on the activities of Outputs 2-5</p> <p>6-3 Organize learning platforms to disseminate good practices and lessons learnt obtained at the activity 6-1</p> <p>6-4 Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector</p>

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

PM Form 3-1 Monitoring Sheet Summary

	<p>Management / Society 2 (9.67MM)</p> <p>1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Uganda</p> <ol style="list-style-type: none"> 1. Mutibwa Robert (Principal Water Officer), Project Manager 2. Bisoborwa Paul (Social Scientist) Liaison Officer – Point water sources 3. Martha Naigaga (EIIO) 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 	<p>Management / Society 2 (9.67MM)</p> <p>1 Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Uganda</p> <ol style="list-style-type: none"> 1. Mutibwa Robert (Principal Water Officer), Project Manager 2. Bisoborwa Paul (Social Scientist) Liaison Officer – Point water sources 3. Martha Naigaga (EIIO) 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
<p>Equipment</p>	<p><u>1st phase</u></p> <ol style="list-style-type: none"> 1. Water Quality Analysis Kit: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets 3. GPS portable: 5 sets 4. Copy machines: 2 sets 	<p><u>1st phase</u></p> <ol style="list-style-type: none"> 1. Procured 2. Procured 3. Procured 4. Procured

PM Form 3-1 Monitoring Sheet Summary

	<p>5. Projector: 1 set 6. Vehicles: 1 station wagon and 1 pickup truck</p> <p><u>2nd phase</u></p> <p>1. Water Quality Analysis material</p> <ul style="list-style-type: none"> - Pack test (Nitrate) (150 pc.): 4 sets - Pack test (Nitrate) (50 pc.): 2 sets - E-coli test paper (100 pc.): 7 sets <p>2. Hand pump (U2): 100 sets</p>	<p>5. Procured 6. Delivered to GoU by JICA</p> <p><u>2nd phase</u></p> <p>1. Procured</p> <p>2. Procured</p> <p>Hand pump (U2): 84 sets Hand pump (U2 extra deep): 33 sets Hand pump (U3 Modified): 1 sets</p>
Training	Training in Japan and/or a third country	To be planned
Ugandan Side Operational Expenses	<p>1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)</p> <p>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.</p> <p>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)</p> <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p>	<p>1. Allocated including C/P of H&S</p> <p>2. Replacement of vehicle tires and vehicle routine service will be disbursed from project account.</p> <p>3. Office space and facilities in Kampala and in Mubende DWO were allocated.</p> <p>4. The costs will be disbursed from the project account.</p> <p>5. The expenses will be disbursed from the project account.</p>

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 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 IIPMA (Hand Pump Mechanic Association) to repair hand pumps when customer communities report a defect.
- (Activity 2-12) A working meeting was organized for HPMA 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

- (Activity 2-1) A 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.
- (Activity 2-10) MoU was signed between IIPMA 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 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 style="list-style-type: none"> ● 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 	

PM Form 3-1 Monitoring Sheet Summary

Kassanda) as a pilot subprogram.		
<p>1) Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document.</p>	<ul style="list-style-type: none"> - Necessary documents were prepared as below; 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) 	Completed
Output 2: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.		
<ul style="list-style-type: none"> ● 101 boreholes are enrolled to the new O&M system in Mubende and Kassanda, and they are maintained by the operation of the Service Centre. ● Rehabilitation of boreholes are on-going in Kiboga, Mpigi and Butambala with MWE's budget. 		
<p>1) Training program on O&M of rural water supply is formulated.</p>	<ul style="list-style-type: none"> - 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 (2nd 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 	Completed

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	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 style="list-style-type: none"> - The ToT for sensitization of water users and WSC were implemented to District staff in control districts; <ol style="list-style-type: none"> 1. Mpigi – 3 district staff (19-20 April 2017) 2. Kiboga – 5 district staff (24-25 April 2017) 3. Butambala – 7 district staff (3-4 May 2017) - 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: <ol style="list-style-type: none"> 1. 10 MWE staff, 2. 2 TSU staff, 3. 9 Mubende district staff, 	Completed
3) The water service provider is established and functioning under the pilot subprogram.	<ul style="list-style-type: none"> - The service center started the service for Kasambya and Kibalinga sub counties in 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. 	Completed
4) O&M activities are implemented based on the annual workplans.	<ul style="list-style-type: none"> - 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) - 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) - Kiboga implements installation of BITs in Kiboga district. Mpigi and Butambala districts wait for funding (June 2019) 	<p>Mubende Completed</p> <p>Kiboga/ Mpigi/ Butambala Delayed</p>
5) At least 24 boreholes are rehabilitated in target districts.	<ul style="list-style-type: none"> - Borehole rehabilitation is completed for 96 sites including apron and fence. (July 2019) 	Completed
6) At least two Hand Pump Mechanics	<ul style="list-style-type: none"> - 2-Week training of HPMs in 8 Sub 	Completed

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<p>(HPMs) are trained on site in each sub-county.</p>	<p>counties of Mubende.</p> <ul style="list-style-type: none"> - Training for other HPMs is conducted in Mubende, Kassanda, Kiboga, Mpigi and Butambala in November 2018, December 2018 and January 2019). 		
<p>7) HPMAs in the target districts undertake repairs of handpumps.</p>	<ul style="list-style-type: none"> - 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. 	<p>Completed</p> <p>Completed</p> <p>As the project completed As the service center operation: functional (on-going business as usual)</p>	
<p>Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.</p>			
<ul style="list-style-type: none"> ● 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. ● 44 WSCs in total were trained in Kiboga, Mpigi and Butambala but rehabilitation work has not been completed yet for them to start maintaining. ● 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. 			
<p>1) More than 85% of WSCs which are trained in the Project are functional.</p>	<ul style="list-style-type: none"> - The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts. <ol style="list-style-type: none"> 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) 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 	<p>Completed</p>	

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	<p>direct management system (DDMS). This represents an 85% success rate.</p> <ul style="list-style-type: none"> - 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 style="list-style-type: none"> - The following 6 piped water supply facilities were improved through project activity (September 2017): <ul style="list-style-type: none"> ▪ Bukomero T/C (Kiboga District) ▪ Kyanamugera RGC (Mubende District) ▪ Koch-Goma, Awere, Corner-Kilak, Kitgum-Matidi (Acholi Sub Region) 	Completed
Output 4: Capacity to supervise development of rural water supply facilities is strengthened.		
<ul style="list-style-type: none"> ● Training program was formulated to fill the capacity gap of MWH 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. 		
1) More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.	<ul style="list-style-type: none"> - Capacity gaps have been identified by conducting institutional analysis. - Training plan is now under preparation. 	On-going
Output 5: Proposed ODF practices in the selected communities implemented.		
<ul style="list-style-type: none"> ● 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. 		
1) Proposed methodology to effectively promote ODF are presented and tested.	<ul style="list-style-type: none"> - Activities are implementing in 64 villages in Mubende district. <ol style="list-style-type: none"> 1. 18 Sub county meetings are held. 2. Baseline survey was completed. 3. Triggering was done in 64 villages. 4. 1st follow up activities were held in 42 villages. 5. 2nd follow up activities were held in 26 villages. 6. Sanitation marketing was held in 7 villages. (October 2019) 	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.	Completed
Output 6: Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector.		
<ul style="list-style-type: none"> ● 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. 		
1) Documents of good practices and lessons learned are distributed to stakeholders.	- To be complied	DL
2) Learning platforms (e.g. workshops) to disseminate good practices and lessons learned are organized.	<ul style="list-style-type: none"> - 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. 	OT

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 Atlas Uganda, the functionality in Mubende reached 88% (2019). The target is 85%. Therefore, the project purpose is achieved.
- 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.
 - (Activity 6-2) Support the target districts to conduct training to IIPMs and IIPMAs.
- 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 2nd 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/A

II. Project Monitoring Sheet I & II *as Attached*

Project Monitoring Sheet I (Revision of Project Design Matrix)

Ver. 6

July, 2019

Project Title: The Project for Operation & Maintenance 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: 4 years from the date when the first JICA Expert is dispatched
Project Sites: Kampala (RWSSD) and 4 Districts (Kaboga, Mubende, Bulambala and Mpigi district)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased 	<ul style="list-style-type: none"> Sector Performance Report 			
<p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from 81% to 85%. The rate of WSC collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. The down time of rural water supply facilities is reduced in the target districts. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%. 	<ol style="list-style-type: none"> Sector Performance Report Project documents Project documents Project documents 	<ul style="list-style-type: none"> 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 		
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p>	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document 	<ol style="list-style-type: none"> Project documents 	<ul style="list-style-type: none"> Financial resources currently allocated to the target districts are not significantly decreased 	<ul style="list-style-type: none"> 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. 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>2. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p>	<p>2-1 Training program on O&M of rural water supply is formulated. 2-2 More than 20 staffs from RWSSD 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 target districts. 2-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 2-7 HPMAs in the target districts undertake repairs of hand pumps.</p>	<p>2-1 Project documents 2-2 Project documents 2-3 Project documents 2-4 Project documents 2-5 Project documents 2-6 Project documents 2-7 Project documents</p>		<ul style="list-style-type: none"> ■ 101 boreholes are enrolled to the new O&M system in Mubinda and Kassanda, and they are maintained by the operation of the Service Centre. ■ Rehabilitation of boreholes are on-going in Kiboga, Mpigi and Butambala with MWE's budget. 	
<p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p>	<p>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.</p>	<p>3-1 Project documents 3-2 Project documents</p>		<ul style="list-style-type: none"> ■ WSCs and caretakers are trained for around 10,0 sources under DDMS and most of them are playing their roles in O&M of rural water supply facilities. ■ 44 WSCs in total were trained in Kiboga, Mpigi and Butambala but rehabilitation work has not been completed yet for them to start maintaining. ■ 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. 	
<p>4. Capacity to supervise development of rural water supply facilities is strengthened</p>	<p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training</p>	<p>4-1 Project documents</p>		<ul style="list-style-type: none"> ■ Training program was formulated to fill the capacity gap of MWE and DWO in planning, designing, bidding and supervision. The training will be 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>5. Proposed ODF practices in the selected communities implemented.</p>	<p>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.</p>	<p>5-1 Project documents 5-2 Project documents</p>		<p>implemented in the coming project period.</p> <ul style="list-style-type: none"> ■ MW/ and DWCO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise. ■ It contributed to ODF to arrange effectively latrine construction demonstrations, sanitation marketing and SITS in addition to CLTS activities. These were compiled in the Handbook as a deliverable. 	
<p>6. Good practices and lessons learnt in the Project are shared widely with stakeholders in the water and sanitation sector</p>	<p>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</p>	<p>6-1 Project documents 6-2 Project documents</p>		<ul style="list-style-type: none"> ■ 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	Inputs	Important Assumption
<p>【Activities for Output 1】</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2-1-4</p> <p>1-6 Formulate PDM (ver. 1) and PO (ver. 1)</p> <p>【Activities for Output 2】</p> <p>2-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2-2 Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions.</p> <p>2-3 Support RWSSD and the pilot district to conduct preparation of the pilot sub-program on O&M (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot sub-program, and select the target sub-counties and the target WSCs.)</p> <p>2-4 Support RWSSD and the pilot district to implement the pilot sub-program on O&M (establish water service provider support the management & operation of the provider)</p> <p>2-5 Support RWSSD and the pilot district to implement M&E of the pilot sub-program on O&M.</p> <p>2-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2-7 Project Team undertakes rehabilitation in the target districts.</p> <p>2-8 Support the target districts to form HPMA.</p> <p>2-9 Support the target districts to conduct training to HPMA.</p> <p>2-10 Support the trained HPMA to conduct diagnosis and repair on rural water supply facilities.</p> <p>2-11 Support the pilot district to guide the management of HPMA to enhance its function.</p> <p>2-12 Support the pilot district to implement M&E of HPMA's activities.</p> <p>2-13 Improve the supply chain of spare parts in the pilot district.</p> <p>2-14 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of ongoing activities.</p>	<p>The Japanese side</p> <p>1. Personnel:</p> <ul style="list-style-type: none"> - Chief/Advisor/Rural Water Supply/Organizational Management - O&M of Rural Water Supply Facilities (Hand pump) - Rehabilitation of Rural Water Supply Facilities (Hand pump)/Construction Supervision - Hydrogeology - Hygiene and Sanitation - O&M of Rural Water Supply Facilities (Piped water supply) / Project Coordination - Other experts if necessary <p>2. Equipment:</p> <p>Office equipment, two vehicles, tool kits, and others</p> <p>3. Training in Japan and/or a third country</p> <p>4. Project activities fee</p>	<p>The Ugandan side</p> <p>1. Allocation of counterparts and administrative personnel</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Counterparts <p>2. Equipment</p> <p>Two vehicles, equipment and materials for administration of the Project</p> <p>3. Allocation of office space and facilities</p> <ul style="list-style-type: none"> - Working space for JICA experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p>

<p>Pre-Conditions</p> <p>■ The budget for the Project to be borne by the Ug and an side is secured</p>		<p>【Activities for Output 3】</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the pilot district to implement regeneration of WSCs in the pilot subprogram.</p> <p>3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram.</p> <p>3-6 Support WSCs to implement M&E of the pilot subprogram.</p> <p>3-7 Support the target districts to take corrective actions based on the results of M&E</p>
<p>→</p> <p><Issues and Countermeasures></p> <p>MWI, and the Project Team have made an agreement on the budgetary steps of Uganda side by the Minutes of Meeting dated Dec. 6, 2016 witnessed by JICA.</p> <p>Bank account for the project was opened (8th September 2017).</p> <p>Allocation and disbursement of project funds to the project account is executed on 18th October.</p>		<p>【Activities for Output 4】</p> <p>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.</p> <p>4-2 Implement the training program to RWSSD and DWOs.</p> <p>4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.</p> <p>4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.</p> <p>【Activities for Output 5】</p> <p>5-1 Project Team selects target villages and schools for CLTS sensitization and target demo sites for latrine construction in Mubende.</p> <p>5-2 Project Team makes a rollout program and coordinates with Sub-county staff.</p> <p>5-3 Project Team conducts a baseline survey at selected sites.</p> <p>5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and latrine construction demos.</p> <p>5-5 Project Team compiles lessons learnt including categorized approaches for behavior change and demo latrine designs as documents from the implemented interventions.</p> <p>【Activities for Output 6】</p> <p>6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2-5.</p> <p>6-2 Review and propose revision of the existing handbooks and training manuals regarding O&M based on the activities of Outputs 2-5</p> <p>6-3 Organize learning platforms to disseminate good practices and lessons learnt obtained at the activity 6-1</p> <p>6-4 Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector</p>

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	<p>Input from Japan <u>Total: 120.39MM/120.39MM (100%)</u> Note: Before extension phase</p> <p>I. Short Term Experts as follows:</p> <ol style="list-style-type: none"> 1. Chief Advisor/Rural Water Supply/Organizational Management (18.47MM) 2. Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities 1 (11.83MM) 3. Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.87MM) 4. Hydrogeology 1 (10.00MM) 5. Hydrogeology 2 (8.33MM) 6. Hygiene and Sanitation 1 (11.03MM) 7. Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (9.00MM) 8. Audit System (4.20M/M) 9. Labor Management 1 (1.50M/M) 10. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 	<p>Input from Japan <u>Total: 120.39MM/120.39MM (100%)</u> Note: Before extension phase</p> <p>I. Short Term Experts as follows:</p> <ol style="list-style-type: none"> 1. Chief Advisor/Rural Water Supply/Organizational Management (18.47MM) 2. Vice Chief Advisor/Operation and Maintenance of Rural Water Supply Facilities 1 (11.83MM) 3. Rehabilitation of Rural Water Supply facilities 1/Construction supervision 1 (0.87MM) 4. Hydrogeology 1 (10.00MM) 5. Hydrogeology 2 (8.33MM) 6. Hygiene and Sanitation 1 (11.03MM) 7. Hygiene and Sanitation 2/Organizational Analysis 1/Monitoring and Evaluation 1 (9.00MM) 8. Audit System (4.20M/M) 9. Labor Management 1 (1.50M/M) 10. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2

PM Form 3-1 Monitoring Sheet Summary

	<p>(12.50MM)</p> <p>11. Operation and Maintenance of Rural Water Supply Facilities 2 / Labor Management / Society 2 (9.67MM)</p> <p>II. Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Japan <u>Total: 0MM/16.80MM (0%)</u> Note: In extension phase</p> <p>Short Term Experts as follows:</p> <ol style="list-style-type: none"> 1. Chief Advisor/ Water Supply Policy (5.00M/M) 2. Labor Management 1((2.30M/M) 3. Rural Water Supply (3.50M/M) 4. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (3.00M/M) 5. Organizational Management 2 (3.00M/M) <p>Input from Uganda</p> <ol style="list-style-type: none"> 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 	<p>(12.50MM)</p> <p>11. Operation and Maintenance of Rural Water Supply Facilities 2 / Labor Management / Society 2 (9.67MM)</p> <p>II. Long Term Expert for Piped Water Supply/ Collaboration (23.00MM)</p> <p>Input from Japan <u>Total: 0MM/16.80MM (0%)</u> Note: In extension phase</p> <p>Short Term Experts as follows:</p> <ol style="list-style-type: none"> 1. Chief Advisor/ Water Supply Policy (0.00M/M) 2. Labor Management 1((0.00M/M) 3. Rural Water Supply (0.00M/M) 4. Society 1/ Organizational Analysis 2/ Monitoring & Evaluation 2 (0.00M/M) 5. Organizational Management 2 (0.00M/M) <p>Input from Uganda</p> <ol style="list-style-type: none"> 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
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	<p>11. Alamai Marion (Graduate Trainee ~ Jan. 2017)</p> <p>12. Mukamwiza Hope (Trainee Accountant), Accountant of the Service Centre</p>	<p>11. Alamai Marion (Graduate Trainee ~ Jan. 2017)</p> <p>12. Mukamwiza Hope (Trainee Accountant), Accountant of the Service Centre</p>
Equipment	<p><u>1st phase</u></p> <p>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</p> <p>2. Operation and Maintenance Tools for Rural Water Supply: - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets</p> <p>3. GPS portable: 5 sets</p> <p>4. Copy machines: 2 sets</p> <p>5. Projector: 1 set</p> <p>6. Vehicles: 1 station wagon and 1 pickup truck</p> <p><u>2nd phase</u></p> <p>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</p> <p>2. Hand pump (U2): 100 sets</p>	<p><u>1st phase</u></p> <p>1. Procured</p> <p>2. Procured</p> <p>3. Procured</p> <p>4. Procured</p> <p>5. Procured</p> <p>6. Delivered to GoU by JICA</p> <p><u>2nd phase</u></p> <p>1. Procured</p> <p>2. Procured - Hand pump (U2): 84 sets - Hand pump (U2 extra deep): 33 sets - Hand pump (U3 Modified): 1 sets</p>
Training	Training in Japan and/or a third country	To be planned
Ugandan Side Operational Expenses	<p>1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)</p> <p>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.</p> <p>3. Allocation of office space and</p>	<p>1. Allocated including C/P of H&S</p> <p>2. Replacement of vehicle tires and vehicle routine service will be disbursed from project account.</p> <p>3. Office space and facilities in Kampala</p>

	<p>facilities (office space for JICA experts in Kampala and the target districts, and other necessary facilities, equipment and materials for administration of the Project)</p> <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p>	<p>and in Mubende DWO were allocated.</p> <p>4. The costs will be disbursed from the project account.</p> <p>5. The expenses will be disbursed from the project account.</p>
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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-7) 96 boreholes were rehabilitated in 9 sub counties in Mubende district and 9 sub counties in Kassanda district.
- (Activity 2A-9) 36 HPs (Hand Pump Mechanics) were trained in 18 sub counties in Mubende and Kassanda districts.
- (Activity 2A-10) The above HPs 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*
<p>Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.</p>		
<ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document. 	<ul style="list-style-type: none"> - Necessary documents were prepared as below; <ul style="list-style-type: none"> 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) 	<p>Achieved</p>

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	e) Work Plan (2 nd 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.		
<ul style="list-style-type: none"> ● 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 below; <ul style="list-style-type: none"> a) Scope of Works for Training of Trainers on O&M of Rural Water Supply (August 2016) b) Work Plan (2nd 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; <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> a) Mubende-3 staff (DWO, CAO, ACAO) 	Achieved (45 people in total)

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	<ul style="list-style-type: none"> b) Kiboga-2 staff (ADWO, ACAO) c) Mpigi-1 staff (DWO) d) Butambala-2 staff (DWO, ADWO) e) 1 Public Health Specialist (TSU) <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> a) 10 MWE staff, b) 2 TSU staff, c) 9 Mubende district staff 	
<ul style="list-style-type: none"> - The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 	<ul style="list-style-type: none"> - The service center started the service for Kasambya and Kibalinga sub counties in 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. 	Achieved
<ul style="list-style-type: none"> - O&M activities are implemented based on the annual workplans. 	<ul style="list-style-type: none"> - Borehole diagnosis: 896 sites in 18 Sub 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. 	On-going

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- 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 sub-county.	- 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
- HPMA's in the target districts undertake repairs of handpumps.	<ul style="list-style-type: none"> - In control districts, MoUs between HPMA's 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 HPMA's 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, HPMA's will be surveyed in coming endline survey. 	<p>Achieved</p> <p>On going</p>
- 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).	<ul style="list-style-type: none"> - 1st monthly progress report will be submitted in January 2020. - 1st quarterly performance report will be submitted in March 2020. 	SFL
Output 2B: A new O&M support system of rural water supply facilities related to user fee collection is formulated.		
- 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
Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.		

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<ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - More than 85% of WSCs which are trained in the Project are functional. 	<ul style="list-style-type: none"> - The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts. <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> a) DDMS (100/100) b) CBMS (7/45) Total (107/145) 73% 	<p>Not Achieved</p>
<ul style="list-style-type: none"> - O&M of piped water supply facilities is improved where activities are implemented. 	<ul style="list-style-type: none"> - The O&M of following 6 piped water supply facilities were improved through project activity (September 2017); <ul style="list-style-type: none"> 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 	<p>Achieved</p>

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	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.		
<ul style="list-style-type: none"> ● 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. ● MWE and DWO staffs attended supervision and completion inspections, which helped to 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 style="list-style-type: none"> - Capacity gaps have been identified by conducting institutional analysis. - Training plan is now under preparation. - The training will be held around April 2020 in Uganda. 	On-going
Output 5: Proposed ODF practices in the selected communities implemented.		
<ul style="list-style-type: none"> ● 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. 		
- Proposed methodology to effectively promote ODF are presented and tested.	<ul style="list-style-type: none"> - Activities are implementing in 64 villages in Mubende district. <ul style="list-style-type: none"> 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) 	Achieved
- The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.	<ul style="list-style-type: none"> - A handbook was produced and approved by MWE including following contents; <ul style="list-style-type: none"> 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 Activities including 1 good practice and 1 lesson learnt. 	Achieved

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	<ul style="list-style-type: none"> 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. 	
<p>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.</p>		
<ul style="list-style-type: none"> ● 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 learnt and good practice is documented.	- They will be documented in Progress report (No.3)	SFL
- Recommendations on proposed revisions of existing hand books and manuals are made.	- They will be proposed in Progress report (No.3)	SFL
- Documented good practice and proposed revisions are shared.	- They are shared in coming workshops	SFL
- At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organized.	<ul style="list-style-type: none"> - 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 will be organized in June and August 2020 	SFL

1-4 Achievement of the Project Purpose

- Indicator No.1: 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	Deep boreholes			Functionality
	Functioning	Non Functioning	Total	
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%

*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.
- **Indicator No.3:** 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.
- **Indicator No.4:** 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%.
- **Indicator No.5:** 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 7th 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)

Ver. 7

December 2019

Project Title: The Project for Operation & Maintenance 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 dispatched
Project Sites: Kampala (RWSSD) and 5 Districts (Kiboga, Mubende, Kasanda, Butambala and Mpigi district)


Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p> <p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased Issued guidelines are used to inform O&M policy. <ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from 81% to 85%. The rate of WSC collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. The downtime of rural water supply facilities is reduced in the target districts. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%. Revision of the guidelines for the O&M rural water supply facilities are proposed in the recommendations. 	<ol style="list-style-type: none"> Sector Performance Report 2~4. Project documents 5. Project recommendation report 	<ul style="list-style-type: none"> Polices 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 		
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p>	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document 	<ol style="list-style-type: none"> Project documents 	<ul style="list-style-type: none"> Financial resources currently allocated to the target districts are not significantly decreased 	<ul style="list-style-type: none"> 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 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>2A. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p> <p>2B. A new O&M support system of rural water supply facilities related to user fee collection is formulated.</p> <p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p>	<p>2A-1 Training program on O&M of rural water supply is formulated.</p> <p>2A-2 More than 20 staffs from RWSSD and the target districts in charge of water supply and sanitation receive the ToT.</p> <p>2A-3 The water service provider (the Service Centre) is established and functioning under the pilot subprogram.</p> <p>2A-4 O&M activities are implemented based on the annual workplans.</p> <p>2A-5 At least 24 boreholes are rehabilitated in target districts.</p> <p>2A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.</p> <p>2A-7 HPMAs in the target districts undertake repairs of hand pumps.</p> <p>2A-8 Activities of the Service Centre monitored at least 5 times during the extension period.</p> <p>2A-9 Submission of monthly progress report and quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC).</p> <p>2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.</p> <p>3-1 More than 85% of WSCs which are trained in the Project are functional.</p> <p>3-2 O&M of piped water supply facilities is improved where activities are implemented.</p>	<p>2-1~7 Project documents</p> <p>2A-8 Monitoring reports</p> <p>2A-9 Record of submission</p> <p>2B-1 Documented Best of Practice (BoP)</p> <p>3-1~2 Project documents</p>		<p>Kassanda) as a pilot subprogram.</p> <ul style="list-style-type: none"> ■ 10 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. ■ 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 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>4. Capacity to supervise development of rural water supply facilities is strengthened</p>	<p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training</p>	<p>4-1 Project documents</p>		<p>maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.</p> <ul style="list-style-type: none"> ■ 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. ■ 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. ■ MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise. 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>5. Proposed ODF practices in the selected communities implemented.</p>	<p>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.</p>	<p>5-1~2 Project documents</p>		<ul style="list-style-type: none"> ■ 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. 	
<p>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.</p>	<p>6-1 Lessons learnt and good practice is documented. 6-2 Recommendations on proposed revisions of existing hand books and manuals are made. 6-3 Documented good practice 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 organized.</p>	<p>6-1~4 Project documents</p>		<ul style="list-style-type: none"> ■ 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	Inputs	Important Assumption
<p>【Activities for Output 1】</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2~1-4</p> <p>1-6 Formulate PDM(ver. 1) and PO(ver. 1)</p> <p>【Activities for Output 2】</p> <p>2A-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2A-2 Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions.</p> <p>2A-3 Support RWSSD and the pilot district to conduct preparation of the pilot sub-program on O&M (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot sub-program, and select the target sub-counties and the target WSCs.)</p> <p>2A-4 Support RWSSD and the pilot district to implement the pilot sub-program on O&M (establish water service provider support the management & operation of the provider)</p> <p>2A-5 Support RWSSD and the pilot district to implement M&E of the pilot sub-program on O&M.</p> <p>2A-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2A-7 Project Team undertakes rehabilitation in the target districts.</p> <p>2A-8 Support the target districts to form HPMA.</p> <p>2A-9 Support the target districts to conduct training to HPMA and HPMA.s.</p> <p>2A-10 Support the trained HPMA.s to conduct diagnosis and repair on rural water supply facilities.</p> <p>2A-11 Support the pilot district to guide the management of HPMA.s to enhance its function.</p> <p>2A-12 Support the pilot district to implement M&E of HPMA.s activities.</p> <p>2A-13 Improve the supply chain of spare parts in the pilot district.</p> <p>2A-14 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities.</p> <p>2A-15 Review the documents related to operation of the service center (e.g. regulations, manuals, work flow etc).</p> <p>2A-16 Draw up monitoring check sheets and progress report and performance report format for operation of the service center.</p> <p>2A-17 Support RWSSD for preparing budget request for operation of the service center.</p>	<p>The Japanese side</p> <p>1. Personnel:</p> <ul style="list-style-type: none"> - Chief Advisor/Rural Water Supply/Organizational Management - O&M of Rural Water Supply Facilities (Hand pump) - Rehabilitation of Rural Water Supply Facilities (Hand pump) - Construction Supervision - Hydrogeology - Hygiene and Sanitation - O&M of Rural Water Supply Facilities (Piped water supply) / Project Coordination - Other experts if necessary <p>2. Equipment:</p> <ul style="list-style-type: none"> - Office equipment, two vehicles, tool kits, and others <p>3. Training in Japan and/or a third country</p> <p>4. Project activities fee</p>	<p>The Ugandan side</p> <p>1. Allocation of counterparts and administrative personnel</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Counterparts <p>2. Equipment</p> <ul style="list-style-type: none"> - Two vehicles, equipment and materials for administration of the Project <p>3. Allocation of office space and facilities</p> <ul style="list-style-type: none"> - Working space for JICA experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p> <p>6. Allocation of necessary human resources to run the service center in target districts.</p>

<p>2A-18 Train the Service Centre staff on key core activities (administrative, finance, technical, society and people) of the Service Centre.</p> <p>2A-19 Monitor the work under 2A-18 based on the monitoring check sheets.</p> <p>2B-1 Run a trial on mobile money transfer in the selected project communities.</p> <p>2B-2 Run a trial on an automated collection system in the selected project communities.</p> <p>2B-3 Run a trial on reducing the frequency of manual water fee collection.</p> <p>2B-4 Run a trial on an incentive and/or reward system for WSCs and caretakers in the selected project communities.</p> <p>2B-5 Compile the individual performance of 2B-1 to 2B-4 and determine the best practices.</p>	<p>Pre-Conditions</p> <p>■ The budget for the Project to be borne by the Ugandan side is secured</p>  <p><Issues and Countermeasures> MWE and the Project Team have made an agreement on the budgetary step so f Ugandan side by the Minutes of Meeting dated Dec 6, 2016 witnessed by JICA.</p> <p>Bank account for the project was opened (8th September 2017).</p> <p>Allocation and disbursement of project funds to the project account is executed on 18th October.</p>
<p>Activities for Output 3</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the pilot district to implement regeneration of WSCs in the pilot subprogram.</p> <p>3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram.</p> <p>3-6 Support WSCs to implement M&E of the pilot subprogram.</p> <p>3-7 Support the target districts to take corrective actions based on the results of M&E</p>	<p>Activities for Output 4</p> <p>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.</p> <p>4-2 Implement the training program to RWSSD and DWOs.</p> <p>4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.</p> <p>4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.</p>
<p>Activities for Output 5</p> <p>5-1 Project Team selects target villages and schools for CLTS sensitization and target demo sites for latrine construction in Mubende.</p> <p>5-2 Project Team makes a roll-out program and coordinates with Sub-county staff.</p> <p>5-3 Project Team conducts a baseline survey at selected sites.</p> <p>5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and latrine construction demos.</p> <p>5-5 Project Team compiles lessons learnt including categorized approaches for</p>	

behavior change and demo latrine designs as documents from the implemented interventions.

【Activities for Output 6】

- 6-1 Summarize good practices and lessons learnt 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 good 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.

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

PM Form 3-1 Monitoring Sheet Summary

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

PM Form 3-1 Monitoring Sheet Summary

	<ul style="list-style-type: none"> - Bacteria (100 pc.): 3 sets 2. Operation and Maintenance Tools for Rural Water Supply: <ul style="list-style-type: none"> - 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 <p><u>2nd phase</u></p> <ul style="list-style-type: none"> 1. Water Quality Analysis material <ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> 2. Procured 3. Procured 4. Procured 5. Procured 6. Delivered to GoU by JICA <p><u>2nd phase</u></p> <ul style="list-style-type: none"> 1. Procured 2. Procured <ul style="list-style-type: none"> - Hand pump (U2): 84 sets - Hand pump (U2 extra deep): 33 sets - Hand pump (U3 Modified): 1 sets
<p>Training</p>	<p>Training in Japan and/or a third country</p>	<p>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.</p>
<p>Ugandan Side Operational Expenses</p>	<ul style="list-style-type: none"> 1. Allocation of counterparts and administrative personnel (Project 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) 	<ul style="list-style-type: none"> 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.

	<p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p> <p>6. Allocation of necessary human resources to run the Service Centre in target districts</p>	<p>4. The costs will be disbursed from the project account.</p> <p>5. The expenses will be disbursed from the project account.</p> <p>6. Staff of Mubende Service Centre was allocated except for an administrator.</p>
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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 HPMA 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 through 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 1st SUNDA is operating at Lubugumu, Kibalinga S/C since February 2020. The 2nd 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*
<p>Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.</p>		
<ul style="list-style-type: none"> ● Baseline survey revealed failure of CBMS. 		

PM Form 3-1 Monitoring Sheet Summary

<ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document. 	<ul style="list-style-type: none"> - Necessary documents were prepared as below; <ul style="list-style-type: none"> 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) 	Achieved
<p>Output 2A: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.</p>		
<ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - Training program on O&M of rural water supply is formulated. 	<ul style="list-style-type: none"> - Training program on O&M of rural water supply has been formulated as 	Achieved

PM Form 3-1 Monitoring Sheet Summary

	<p>below;</p> <ul style="list-style-type: none"> a) Scope of Works for Training of Trainers on O&M of Rural Water Supply (August 2016) b) Work Plan (2nd 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) 	
<ul style="list-style-type: none"> - More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT. 	<ul style="list-style-type: none"> - The ToT for sensitization of water users and WSC were implemented to District staff in control districts; <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> a) 10 MWE staff, b) 2 TSU staff, c) 9 Mubende district staff 	<p>Achieved (45 people in total)</p>
<ul style="list-style-type: none"> - The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 	<ul style="list-style-type: none"> - The service center started the service for Kasambya and Kibalinga sub counties in April 2018. 	<p>Achieved</p>

PM Form 3-1 Monitoring Sheet Summary

	<ul style="list-style-type: none"> - 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. 	
<ul style="list-style-type: none"> - O&M activities are implemented based on the annual workplans. 	<ul style="list-style-type: none"> - Borehole diagnosis: 896 sites in 18 Sub 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. 	On-going
<ul style="list-style-type: none"> - At least 24 boreholes are rehabilitated in target districts. 	<ul style="list-style-type: none"> - Borehole rehabilitation is completed for 96 sites including apron and fence. (July 2019) 	Achieved
<ul style="list-style-type: none"> - At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 	<ul style="list-style-type: none"> - 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
<ul style="list-style-type: none"> - HPMAAs in the target districts undertake repairs of handpumps. 	<ul style="list-style-type: none"> - In control districts, MoUs between HPMAAs 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 	Achieved

PM Form 3-1 Monitoring Sheet Summary

	<p>HPMAs and the local governments regarding report system of handpump repair were signed (May 2017).</p> <ul style="list-style-type: none"> - Mubende HPMA undertakes repair of hand pumps through the Service Center. - Facilities to be repaired by HPMA are under rehabilitation by MWE. HPMS in control districts will start repair work after the rehabilitation. 	On going
<ul style="list-style-type: none"> - Activities of the service centre monitored at least 5 times during the extension period 	<ul style="list-style-type: none"> - 1st monitoring was done in the 2nd JMC meeting on 31st January 2020. - Following monitoring is suspended because of COVID-19. 	SFL
<ul style="list-style-type: none"> - Submission of monthly progress report and quarterly performance report on key core activities of the service centre to Joint Management Committee (JMC). 	<ul style="list-style-type: none"> - 1st monthly progress report was submitted in the 2nd JMC meeting on 31st January 2020. - Other submission of other following report is suspended because of COVID-19. 	SFL
<p>Output 2B: A new O&M support system of rural water supply facilities related to user fee collection is formulated.</p>		
<ul style="list-style-type: none"> - Recommendation on most effective methodology of user fee collections in relation to the type of communities is made. 	<ul style="list-style-type: none"> - I will be recommended through the series of activity 2B. 	SFL
<p>Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.</p>		
<ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - More than 85% of WSCs which are trained in the Project are functional. 	<ul style="list-style-type: none"> - The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts. <ul style="list-style-type: none"> a) Mpigi for 19 staff (19-20 April 	Not Achieved

PM Form 3-1 Monitoring Sheet Summary

	<p>2017)</p> <p>b) Kiboga for 19 staff (24-25 April 2017)</p> <p>c) Butambala 15 staff (3-4 May 2017)</p> <p>The extension workers that have been trained will be supported to train the WSC in their communities</p> <p>- Functionality of trained WSCs (Sep. 2019)</p> <p>a) DDMS (100/100)</p> <p>b) CBMS (7/45)</p> <p>Total (107/145) 73%</p>	
<p>- O&M of piped water supply facilities is improved where activities are implemented.</p>	<p>- The O&M of following 6 piped water supply facilities were improved through project activity (September 2017);</p> <p>a) Bukomero T/C (Kiboga District): opened bank account and started to save money</p> <p>b) Kyanamugera RGC (Mubende District): made management contract with SO, opened bank account and save more than 500 USD</p> <p>c) Koch-Goma, Kitgum-Matidi (Acholi Sub Region): made management contract with SO, opened bank account and started to save money</p> <p>d) Awere, Corner-Kilak (Acholi Sub Region): made management contract with SO</p>	Achieved
<p>Output 4: Capacity to supervise development of rural water supply facilities is strengthened.</p>		
<ul style="list-style-type: none"> ● 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. ● MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise. 		
<p>- More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training.</p>	<p>- Capacity gaps have been identified by conducting institutional analysis.</p> <p>- Training plan is now under preparation.</p> <p>- The training is suspended because of COVID-19.</p>	On-going

<p>Output 5: Proposed ODF practices in the selected communities implemented.</p>		
<ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - Proposed methodology to effectively promote ODF are presented and tested. 	<ul style="list-style-type: none"> - Activities are implementing in 64 villages in Mubende district. <ul style="list-style-type: none"> 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) 	<p>Achieved</p>
<ul style="list-style-type: none"> - The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions. 	<ul style="list-style-type: none"> - A handbook was produced and approved by MWE including following contents; <ul style="list-style-type: none"> 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 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. 	<p>Achieved</p>

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.		
<ul style="list-style-type: none"> ● 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 learnt and good practice is documented.	- They will be documented in the Project recommendation report.	SFL
- 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
- At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organized.	<ul style="list-style-type: none"> - 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 are suspended because of COVID-19. 	SFL

1-4 Achievement of the Project Purpose

- Indicator No.1: 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	Deep boreholes			Functionality
	Functioning	Non Functioning	Total	
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%

*Uganda Water Supply ATLAS, 7 September 2020

- Indicator No.2: 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.

- **Indicator No.3:** 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.
- **Indicator No.4:** 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%.
- **Indicator No.5:** 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 1st 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 & Maintenance 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 dispatched
Project Sites: Kampala (RWSSD) and 5 Districts (Kiboga, Mubende, Kasanda, Butambala and Mpigi district)

Ver. 8
 September 2020

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased Issued guidelines are used to inform O&M policy. 	<ol style="list-style-type: none"> Sector Performance Report Issued guidelines / proposal of policy change 			
<p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from 81% to 85%. The rate of WSC collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. The downtime of rural water supply facilities is reduced in the target districts. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%. Revision of the guidelines for the O&M rural water supply facilities are proposed in the recommendations. 	<ol style="list-style-type: none"> Sector Performance Report 2~4. Project documents 5. Project recommendation report 	<ul style="list-style-type: none"> Polices 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 		
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p>	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document 	<ol style="list-style-type: none"> Project documents 	<ul style="list-style-type: none"> Financial resources currently allocated to the target districts are not significantly decreased 	<ul style="list-style-type: none"> 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 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>2A. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p> <p>2B. A new O&M support system of rural water supply facilities related to user fee collection is formulated.</p> <p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p>	<p>2A-1 Training program on O&M of rural water supply is formulated.</p> <p>2A-2 More than 20 staffs from RWSSD and the target districts in charge of water supply and sanitation receive the ToT.</p> <p>2A-3 The water service provider (the Service Centre) is established and functioning under the pilot subprogram.</p> <p>2A-4 O&M activities are implemented based on the annual workplans.</p> <p>2A-5 At least 24 boreholes are rehabilitated in target districts.</p> <p>2A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.</p> <p>2A-7 HPMAs in the target districts undertake repairs of hand pumps.</p> <p>2A-8 Activities of the Service Centre monitored at least 5 times during the extension period.</p> <p>2A-9 Submission of monthly progress report and quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC).</p> <p>2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.</p> <p>3-1 More than 85% of WSCs which are trained in the Project are functional.</p> <p>3-2 O&M of piped water supply facilities is improved where activities are implemented.</p>	<p>2-1~7 Project documents</p> <p>2A-8 Monitoring reports</p> <p>2A-9 Record of submission</p> <p>2B-1 Documented Best of Practice (BoP)</p> <p>3-1~2 Project documents</p>		<p>Kassanda) as a pilot subprogram.</p> <ul style="list-style-type: none"> ■ 10 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. ■ 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 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>4. Capacity to supervise development of rural water supply facilities is strengthened</p>	<p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training</p>	<p>4-1 Project documents</p>		<p>maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.</p> <ul style="list-style-type: none"> ■ 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. ■ 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. ■ MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise. 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>5. Proposed ODF practices in the selected communities implemented.</p>	<p>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.</p>	<p>5-1~2 Project documents</p>		<ul style="list-style-type: none"> ■ 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. 	
<p>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.</p>	<p>6-1 Lessons learnt and good practice is documented. 6-2 Recommendations on proposed revisions of existing hand books and manuals are made. 6-3 Documented good practice 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 organized.</p>	<p>6-1~4 Project documents</p>		<ul style="list-style-type: none"> ■ 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	Inputs	Important Assumption
<p>【Activities for Output 1】</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2~1-4</p> <p>1-6 Formulate PDM(ver. 1) and PO(ver. 1)</p> <p>【Activities for Output 2】</p> <p>2A-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2A-2 Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions.</p> <p>2A-3 Support RWSSD and the pilot district to conduct preparation of the pilot sub-program on O&M (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot sub-program, and select the target sub-counties and the target WSCs.)</p> <p>2A-4 Support RWSSD and the pilot district to implement the pilot sub-program on O&M (establish water service provider support the management & operation of the provider)</p> <p>2A-5 Support RWSSD and the pilot district to implement M&E of the pilot sub-program on O&M.</p> <p>2A-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2A-7 Project Team undertakes rehabilitation in the target districts.</p> <p>2A-8 Support the target districts to form HPMA.</p> <p>2A-9 Support the target districts to conduct training to HPMA and HPMA.s.</p> <p>2A-10 Support the trained HPMA.s to conduct diagnosis and repair on rural water supply facilities.</p> <p>2A-11 Support the pilot district to guide the management of HPMA.s to enhance its function.</p> <p>2A-12 Support the pilot district to implement M&E of HPMA.s activities.</p> <p>2A-13 Improve the supply chain of spare parts in the pilot district.</p> <p>2A-14 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities.</p> <p>2A-15 Review the documents related to operation of the service center (e.g. regulations, manuals, work flow etc).</p> <p>2A-16 Draw up monitoring check sheets and progress report and performance report format for operation of the service center.</p> <p>2A-17 Support RWSSD for preparing budget request for operation of the service center.</p>	<p>The Japanese side</p> <p>1. Personnel:</p> <ul style="list-style-type: none"> - Chief Advisor/Rural Water Supply/Organizational Management - O&M of Rural Water Supply Facilities (Hand pump) - Rehabilitation of Rural Water Supply Facilities (Hand pump) - Construction Supervision - Hydrogeology - Hygiene and Sanitation - O&M of Rural Water Supply Facilities (Piped water supply) / Project Coordination - Other experts if necessary <p>2. Equipment:</p> <ul style="list-style-type: none"> - Office equipment, two vehicles, tool kits, and others <p>3. Training in Japan and/or a third country</p> <p>4. Project activities fee</p>	<p>The Ugandan side</p> <p>1. Allocation of counterparts and administrative personnel</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Counterparts <p>2. Equipment</p> <ul style="list-style-type: none"> - Two vehicles, equipment and materials for administration of the Project <p>3. Allocation of office space and facilities</p> <ul style="list-style-type: none"> - Working space for JICA experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p> <p>6. Allocation of necessary human resources to run the service center in target districts.</p>

<p>2A-18 Train the Service Centre staff on key core activities (administrative, finance, technical, society and people) of the Service Centre.</p> <p>2A-19 Monitor the work under 2A-18 based on the monitoring check sheets.</p> <p>2B-1 Run a trial on mobile money transfer in the selected project communities.</p> <p>2B-2 Run a trial on an automated collection system in the selected project communities.</p> <p>2B-3 Run a trial on reducing the frequency of manual water fee collection.</p> <p>2B-4 Run a trial on an incentive and/or reward system for WSCs and caretakers in the selected project communities.</p> <p>2B-5 Compile the individual performance of 2B-1 to 2B-4 and determine the best practices.</p>	<p>Pre-Conditions</p> <p>■ The budget for the Project to be borne by the Ugandan side is secured</p> <p style="text-align: center;"></p> <p><Issues and Countermeasures></p> <p>MWE and the Project Team have made an agreement on the budgetary step so f Ugandan side by the Minutes of Meeting dated Dec 6, 2016 witnessed by JICA.</p> <p>Bank account for the project was opened (8th September 2017).</p> <p>Allocation and disbursement of project funds to the project account is executed on 18th October.</p>
<p>Activities for Output 3</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the pilot district to implement regeneration of WSCs in the pilot subprogram.</p> <p>3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram.</p> <p>3-6 Support WSCs to implement M&E of the pilot subprogram.</p> <p>3-7 Support the target districts to take corrective actions based on the results of M&E</p>	<p>Activities for Output 4</p> <p>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.</p> <p>4-2 Implement the training program to RWSSD and DWOs.</p> <p>4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.</p> <p>4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.</p>
<p>Activities for Output 5</p> <p>5-1 Project Team selects target villages and schools for CLTS sensitization and target demo sites for latrine construction in Mubende.</p> <p>5-2 Project Team makes a roll-out program and coordinates with Sub-county staff.</p> <p>5-3 Project Team conducts a baseline survey at selected sites.</p> <p>5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and latrine construction demos.</p> <p>5-5 Project Team compiles lessons learnt including categorized approaches for</p>	

behavior change and demo latrine designs as documents from the implemented interventions.

【Activities for Output 6】

- 6-1 Summarize good practices and lessons learnt 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 good 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.

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

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

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	<ul style="list-style-type: none"> - Spectrophotometer: 1 set - Pack test (Iron) (50 pc.): 3 sets - E-coli test paper (100 pc.): 3 sets - Bacteria (100 pc.): 3 sets <p>2. Operation and Maintenance Tools for Rural Water Supply:</p> <ul style="list-style-type: none"> - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets <p>3. GPS portable: 5 sets</p> <p>4. Copy machines: 2 sets</p> <p>5. Projector: 1 set</p> <p>6. Vehicles: 1 station wagon and 1 pickup truck</p> <p><u>2nd phase</u></p> <p>1. Water Quality Analysis material</p> <ul style="list-style-type: none"> - Pack test (Nitrate) (150 pc.): 4 sets - Pack test (Nitrate) (50 pc.): 2 sets -E-coli test paper (100 pc.): 7 sets <p>2. Hand pump (U2): 100 sets</p>	<p>2. Procured</p> <p>3. Procured</p> <p>4. Procured</p> <p>5. Procured</p> <p>6. Delivered to GoU by JICA</p> <p><u>2nd phase</u></p> <p>1. Procured</p> <p>2. Procured</p> <ul style="list-style-type: none"> - Hand pump (U2): 84 sets - Hand pump (U2 extra deep): 33 sets - Hand pump (U3 Modified): 1 sets
<p>Training</p>	<p>Training in Japan and/or a third country</p>	<p>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.</p>
<p>Ugandan Side Operational Expenses</p>	<p>1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)</p> <p>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.</p> <p>3. Allocation of office space and facilities (office space for JICA experts in Kampala and the target</p>	<p>1. Allocated including C/P of H&S</p> <p>2. Replacement of vehicle tires and vehicle routine service will be disbursed from project account.</p> <p>3. Office space and facilities in Kampala and in Mubende DWO were allocated.</p>

	<p>districts, and other necessary facilities, equipment and materials for administration of the Project)</p> <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p> <p>6. Allocation of necessary human resources to run the Service Centre in target districts</p>	<p>4. The costs will be disbursed from the project account.</p> <p>5. The expenses will be disbursed from the project account.</p> <p>6. Staff of Mubende Service Centre was allocated. MWE assigned four coordinators of regional O&M centers (Gulu, Jinja, Masaka, and Mubende).</p>
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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 HPMA 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*
<p>Output 1: Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated.</p>		
<ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document. 	<ul style="list-style-type: none"> - Necessary documents were prepared as below; <ol style="list-style-type: none"> 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) 	<p>Achieved</p>

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<p>Output 2A: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.</p>		
<ul style="list-style-type: none"> ● 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. 		
<p>- Training program on O&M of rural water supply is formulated.</p>	<p>- Training program on O&M of rural water supply has been formulated as below;</p> <ul style="list-style-type: none"> a) Scope of Works for Training of Trainers on O&M of Rural Water Supply (August 2016) b) Work Plan (2nd 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) 	<p>Achieved</p>
<p>- More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT.</p>	<ul style="list-style-type: none"> - The ToT for sensitization of water users and WSC were implemented to District staff in control districts; <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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 	<p>Achieved (45 people in total)</p>

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	<p>for MWE (Ministry of Water and Environment), TSU (Technical Support Unit), and Mubende district were held from 11-12 September 2018. The participants were:</p> <ul style="list-style-type: none"> a) 10 MWE staff, b) 2 TSU staff, c) 9 Mubende district staff 	
<ul style="list-style-type: none"> - The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 	<ul style="list-style-type: none"> - The service center started the service for Kasambya and Kibalinga sub counties in 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. 	Achieved
<ul style="list-style-type: none"> - O&M activities are implemented based on the annual workplans. 	<ul style="list-style-type: none"> - Borehole diagnosis: 896 sites in 18 Sub 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. 	On-going
<ul style="list-style-type: none"> - At least 24 boreholes are rehabilitated in target districts. 	<ul style="list-style-type: none"> - Borehole rehabilitation is completed for 96 sites including apron and fence. (July 2019) 	Achieved
<ul style="list-style-type: none"> - At least two Hand Pump Mechanics 	<ul style="list-style-type: none"> - Trainings for 2 HPMs from each sub 	Achieved

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<p>condition.</p> <ul style="list-style-type: none"> ● 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. 		
<ul style="list-style-type: none"> - More than 85% of WSCs which are trained in the Project are functional. 	<ul style="list-style-type: none"> - The ToT for sensitization for water users and WSC were implemented to Sub-county officers in control districts. <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> a) DDMS (100/100) b) CBMS (7/45) Total (107/145) 73% 	<p>Not Achieved</p>
<ul style="list-style-type: none"> - O&M of piped water supply facilities is improved where activities are implemented. 	<ul style="list-style-type: none"> - The O&M of following 6 piped water supply facilities were improved through project activity (September 2017); <ul style="list-style-type: none"> 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 	<p>Achieved</p>

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	contract with SO	
Output 4: Capacity to supervise development of rural water supply facilities is strengthened.		
<ul style="list-style-type: none"> ● 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. ● MWE and DWO staffs attended supervision and completion inspections, which helped to 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.	- Capacity gaps have been identified by conducting institutional analysis. - Training plan is now under preparation. - The training is suspended because of COVID-19.	On-going
Output 5: Proposed ODF practices in the selected communities implemented.		
<ul style="list-style-type: none"> ● 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. 		
- Proposed methodology to effectively promote ODF are presented and tested.	- Activities are implementing in 64 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)	Achieved
- 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 Activities including 1 good practice and 1 lesson learnt. e) Construction of Demonstrations including 1 good practice and 1	Achieved

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	<p>lesson learnt</p> <p>f) Sanitation Marketing including 1 good practice and 1 lesson learnt</p> <p>g) School Led Total Sanitation include 1 good practice</p> <p>h) Follow up MANDONA (FUM) including 3 good practices and 1 lesson learnt</p> <p>- This handbook is expected to deliver in coming workshops for share good practice and lesson learnt.</p>	
<p>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.</p>		
<ul style="list-style-type: none"> ● 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 learnt and good practice is documented.	- They will be documented in the Project recommendation report.	On-going
- Recommendations on proposed revisions of existing hand books and manuals are made.	- They will be proposed in the Project recommendation report.	On-going
- Documented good practice and proposed revisions are shared.	- They are shared in coming workshops	SFL
- At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organized.	<ul style="list-style-type: none"> - 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 times of workshops for promoting DDMS are suspended because of COVID-19. 	SFL

1-4 Achievement of the Project Purpose

- Indicator No.1: 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	Deep boreholes			Functionality
	Functioning	Non Functioning	Total	
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%

*Uganda Water Supply ATLAS, 30 September 2021

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

District	WSC Functional		Management
	WSC established	WSC functional	
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%

*Sector Performance Report 2020

- **Indicator No.3:** 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.
- **Indicator No.4:** 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%.
- **Indicator No.5:** 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 1st 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 & Maintenance 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 dispatched
Project Sites: Kampala (RWSSD) and 5 Districts (Kiboga, Mubende, Kasanda, Butambala and Mpigi district)

Ver. 9
 April 2021

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased Issued guidelines are used to inform O&M policy. 	<ol style="list-style-type: none"> Sector Performance Report Issued guidelines / proposal of policy change 			
<p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from 81% to 85%. The rate of WSC collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. The downtime of rural water supply facilities is reduced in the target districts. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%. Revision of the guidelines for the O&M rural water supply facilities are proposed in the recommendations. 	<ol style="list-style-type: none"> Sector Performance Report 2~4. Project documents 5. Project recommendation report 	<ul style="list-style-type: none"> Polices 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 		
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p>	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document 	<ol style="list-style-type: none"> Project documents 	<ul style="list-style-type: none"> Financial resources currently allocated to the target districts are not significantly decreased 	<ul style="list-style-type: none"> 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 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>2A. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p> <p>2B. A new O&M support system of rural water supply facilities related to user fee collection is formulated.</p> <p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p>	<p>2A-1 Training program on O&M of rural water supply is formulated.</p> <p>2A-2 More than 20 staffs from RWSSD and the target districts in charge of water supply and sanitation receive the ToT.</p> <p>2A-3 The water service provider (the Service Centre) is established and functioning under the pilot subprogram.</p> <p>2A-4 O&M activities are implemented based on the annual workplans.</p> <p>2A-5 At least 24 boreholes are rehabilitated in target districts.</p> <p>2A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.</p> <p>2A-7 HPMs in the target districts undertake repairs of hand pumps.</p> <p>2A-8 Activities of the Service Centre monitored at least 5 times during the extension period.</p> <p>2A-9 Submission of monthly progress report and quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC).</p> <p>2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.</p> <p>3-1 More than 85% of WSCs which are trained in the Project are functional.</p> <p>3-2 O&M of piped water supply facilities is improved where activities are implemented.</p>	<p>2-1~7 Project documents</p> <p>2A-8 Monitoring reports</p> <p>2A-9 Record of submission</p> <p>2B-1 Documented Best of Practice (BoP)</p> <p>3-1~2 Project documents</p>		<p>Kassanda) as a pilot subprogram.</p> <ul style="list-style-type: none"> ■ 10 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. ■ 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 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>4. Capacity to supervise development of rural water supply facilities is strengthened</p>	<p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training</p>	<p>4-1 Project documents</p>		<p>maintaining. It is expected that the trained personnel will start O&M work after the completion of rehabilitation work.</p> <ul style="list-style-type: none"> ■ 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. ■ 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. ■ MWE and DWO staffs attended supervision and completion inspections, which helped to improve their capacity to supervise. 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>5. Proposed ODF practices in the selected communities implemented.</p>	<p>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.</p>	<p>5-1~2 Project documents</p>		<ul style="list-style-type: none"> ■ 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. 	
<p>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.</p>	<p>6-1 Lessons learnt and good practice is documented. 6-2 Recommendations on proposed revisions of existing hand books and manuals are made. 6-3 Documented good practice 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 organized.</p>	<p>6-1~4 Project documents</p>		<ul style="list-style-type: none"> ■ 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	Inputs	Important Assumption
<p>【Activities for Output 1】</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2~1-4</p> <p>1-6 Formulate PDM(ver. 1) and PO(ver. 1)</p> <p>【Activities for Output 2】</p> <p>2A-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2A-2 Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions.</p> <p>2A-3 Support RWSSD and the pilot district to conduct preparation of the pilot sub-program on O&M (formulate a framework of new O&M system, support district local government to draw up ordinances for the pilot sub-program, and select the target sub-counties and the target WSCs.)</p> <p>2A-4 Support RWSSD and the pilot district to implement the pilot sub-program on O&M (establish water service provider support the management & operation of the provider)</p> <p>2A-5 Support RWSSD and the pilot district to implement M&E of the pilot sub-program on O&M.</p> <p>2A-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2A-7 Project Team undertakes rehabilitation in the target districts.</p> <p>2A-8 Support the target districts to form HPMA.</p> <p>2A-9 Support the target districts to conduct training to HPMA and HPMA.s.</p> <p>2A-10 Support the trained HPMA.s to conduct diagnosis and repair on rural water supply facilities.</p> <p>2A-11 Support the pilot district to guide the management of HPMA.s to enhance its function.</p> <p>2A-12 Support the pilot district to implement M&E of HPMA.s activities.</p> <p>2A-13 Improve the supply chain of spare parts in the pilot district.</p> <p>2A-14 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities.</p> <p>2A-15 Review the documents related to operation of the service center (e.g. regulations, manuals, work flow etc).</p> <p>2A-16 Draw up monitoring check sheets and progress report and performance report format for operation of the service center.</p> <p>2A-17 Support RWSSD for preparing budget request for operation of the service center.</p>	<p>The Japanese side</p> <p>1. Personnel:</p> <ul style="list-style-type: none"> - Chief Advisor/Rural Water Supply/Organizational Management - O&M of Rural Water Supply Facilities (Hand pump) - Rehabilitation of Rural Water Supply Facilities (Hand pump) - Supervision - Hydrogeology - Hygiene and Sanitation - O&M of Rural Water Supply Facilities (Piped water supply) / Project Coordination - Other experts if necessary <p>2. Equipment:</p> <ul style="list-style-type: none"> - Office equipment, two vehicles, tool kits, and others <p>3. Training in Japan and/or a third country</p> <p>4. Project activities fee</p>	<p>The Ugandan side</p> <p>1. Allocation of counterparts and administrative personnel</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Counterparts <p>2. Equipment</p> <ul style="list-style-type: none"> - Two vehicles, equipment and materials for administration of the Project <p>3. Allocation of office space and facilities</p> <ul style="list-style-type: none"> - Working space for JICA experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p> <p>6. Allocation of necessary human resources to run the service center in target districts.</p>

<p>2A-18 Train the Service Centre staff on key core activities (administrative, finance, technical, society and people) of the Service Centre.</p> <p>2A-19 Monitor the work under 2A-18 based on the monitoring check sheets.</p> <p>2B-1 Run a trial on mobile money transfer in the selected project communities.</p> <p>2B-2 Run a trial on an automated collection system in the selected project communities.</p> <p>2B-3 Run a trial on reducing the frequency of manual water fee collection.</p> <p>2B-4 Run a trial on an incentive and/or reward system for WSCs and caretakers in the selected project communities.</p> <p>2B-5 Compile the individual performance of 2B-1 to 2B-4 and determine the best practices.</p>	<p>Pre-Conditions</p> <p>■ The budget for the Project to be borne by the Ugandan side is secured</p> <p style="text-align: center;"></p> <p><Issues and Countermeasures></p> <p>MWE and the Project Team have made an agreement on the budgetary step so f Ugandan side by the Minutes of Meeting dated Dec 6, 2016 witnessed by JICA.</p> <p>Bank account for the project was opened (8th September 2017).</p> <p>Allocation and disbursement of project funds to the project account is executed on 18th October.</p>
<p>Activities for Output 3</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the pilot district to implement regeneration of WSCs in the pilot subprogram.</p> <p>3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram.</p> <p>3-6 Support WSCs to implement M&E of the pilot subprogram.</p> <p>3-7 Support the target districts to take corrective actions based on the results of M&E</p>	<p>Activities for Output 4</p> <p>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.</p> <p>4-2 Implement the training program to RWSSD and DWOs.</p> <p>4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.</p> <p>4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.</p>
<p>Activities for Output 5</p> <p>5-1 Project Team selects target villages and schools for CLTS sensitization and target demo sites for latrine construction in Mubende.</p> <p>5-2 Project Team makes a roll-out program and coordinates with Sub-county staff.</p> <p>5-3 Project Team conducts a baseline survey at selected sites.</p> <p>5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and latrine construction demos.</p> <p>5-5 Project Team compiles lessons learnt including categorized approaches for</p>	

behavior change and demo latrine designs as documents from the implemented interventions.

【Activities for Output 6】

- 6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2-5.
- 6-2 Propose revision of the existing handbooks 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 learned from the Project with stakeholders in the water and sanitation sector.

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

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

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	<ul style="list-style-type: none"> - Spectrophotometer: 1 set - Pack test (Iron) (50 pc.): 3 sets - E-coli test paper (100 pc.): 3 sets - Bacteria (100 pc.): 3 sets <p>2. Operation and Maintenance Tools for Rural Water Supply:</p> <ul style="list-style-type: none"> - Tool box for U2 hand pump: 32 sets - Chain block and tripod: 4 sets <p>3. GPS portable: 5 sets</p> <p>4. Copy machines: 2 sets</p> <p>5. Projector: 1 set</p> <p>6. Vehicles: 1 station wagon and 1 pickup truck</p> <p><u>2nd phase</u></p> <p>1. Water Quality Analysis material</p> <ul style="list-style-type: none"> - Pack test (Nitrate) (150 pc.): 4 sets - Pack test (Nitrate) (50 pc.): 2 sets -E-coli test paper (100 pc.): 7 sets <p>2. Hand pump (U2): 100 sets</p>	<p>2. Procured</p> <p>3. Procured</p> <p>4. Procured</p> <p>5. Procured</p> <p>6. Delivered to GoU by JICA</p> <p><u>2nd phase</u></p> <p>1. Procured</p> <p>2. Procured</p> <ul style="list-style-type: none"> - Hand pump (U2): 84 sets - Hand pump (U2 extra deep): 33 sets - Hand pump (U3 Modified): 1 sets <p><u>3rd phase</u></p> <p>Hand pump material, equipment, vehicles had been procured by JICA directly as the component of COVID-19 response. (March 2022)</p>
Training	Training in Japan and/or a third country	<p>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.</p> <ul style="list-style-type: none"> ● Management of hand pump repair for the Service Centre Staff ● Borehole Rehabilitation for the skilled worker
Ugandan Side Operational Expenses	1. Allocation of counterparts and administrative personnel (Project Director, Project Manager and Counterparts)	1. Allocated including C/P of H&S

	<ol style="list-style-type: none"> 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 6. Allocation of necessary human resources to run the Service Centre in target districts 	<ol style="list-style-type: none"> 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. 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.
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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 1st JCC meeting on 18th 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 test-run 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 7th 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 inconvenience 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)
- 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 16th May 2018.
- A booth exhibition at National Hand Washing Day event in Fort Portal on 15th October 2018.
- A booth exhibition at the World Water Day in Entebbe on March 22nd 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 26th May 2022.
- Meeting with MWE and developing partner (GOAL) on 1st June 2022.
- Site tour with development partners in Mubende district on 16th June 2022.

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.		
- Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document.	- 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, <ul style="list-style-type: none"> a) Shortage of human resources and lack of transportation b) Too many facilities are spread in the whole area of the sub county c) The budget line of the central government and the local government are separated. - 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.	Achieved
Output 2A: O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts.		
- 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

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	<ul style="list-style-type: none"> a) Scope of Works for Training of Trainers on O&M of Rural Water Supply (August 2016) b) Work Plan (2nd Edition) for the Project for Operation & Maintenance for Rural Water Supply and Improved Hygiene and Sanitation (January 2017) c) Formulation of materials for ToT of DMS and CBMS for relevant district staff and sub-county staff. 	
<ul style="list-style-type: none"> - More than 20 staff from RWSSD and the target districts in charge of water supply and sanitation complete the ToT. 	<ul style="list-style-type: none"> - The ToT for sensitization of water users and WSC were implemented to District staff in control districts; <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> a) 10 MWE staff, b) 2 TSU staff, c) 9 Mubende district staff 	Achieved (45 people in total)
<ul style="list-style-type: none"> - The water service provider (the Service Centre) is established and functioning under the pilot subprogram. 	<ul style="list-style-type: none"> - The Service Center started the service for Kasambya and Kibalinga sub counties in April 2018. - The Service Center has expanded the service area to cover 8 Sub counties in 	Achieved

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	<p>Mubende district as of October 2018.</p> <ul style="list-style-type: none"> - The Service Center covered the operation area of all 18 sub counties in Mubende and Kassanda districts as of May 2019. 	
<ul style="list-style-type: none"> - O&M activities are implemented based on the annual workplans. 	<ul style="list-style-type: none"> - Borehole diagnosis: 896 sites in 18 Sub 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. 	Achieved
<ul style="list-style-type: none"> - At least 24 boreholes are rehabilitated in target districts. 	<ul style="list-style-type: none"> - Borehole rehabilitation is completed for 96 sites including apron and fence. (July 2019) 	Achieved
<ul style="list-style-type: none"> - At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county. 	<ul style="list-style-type: none"> - 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
<ul style="list-style-type: none"> - HPMA in the target districts undertake repairs of handpumps. 	<ul style="list-style-type: none"> - In control districts, MoUs between HPMA 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 HPMA 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. 	Achieved

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<ul style="list-style-type: none"> - Activities of the service centre monitored at least 5 times during the extension period 	<ul style="list-style-type: none"> - 1st monitoring was done in the 2nd JMC meeting on 31st January 2020. - During the COVID-19, the activities are monitored monthly through SNS (Social Networking Service). 	<p>Achieved</p>
<ul style="list-style-type: none"> - Submission of monthly progress report and quarterly performance report on key core activities of the service centre to Joint Management Committee (JMC). 	<ul style="list-style-type: none"> - 1st monthly progress report was submitted in the 2nd JMC meeting on 31st January 2020. - The quarterly performance reports were documented by the Administrator. (1st and 2nd Quarter of 2020) - 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 e-mail and SNS by the Service Centre. 	<p>Not Achieved</p>
<p>Output 2B: A new O&M support system of rural water supply facilities related to user fee collection is formulated.</p>		
<ul style="list-style-type: none"> - Recommendation on most effective methodology of user fee collections in relation to the type of communities is made. 	<ul style="list-style-type: none"> - DDMS+SUNDA is the best solution. It was confirmed the 8th JCC meeting in October 2021. 	<p>Achieved</p>
<p>Output 3: Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts.</p>		
<ul style="list-style-type: none"> - More than 85% of WSCs which are trained in the Project are functional. 	<ul style="list-style-type: none"> - Functionality of trained WSCs by the monitoring activities 3-3 (for CBMS in Feb. 2022) and 3-6 (for DMS in Jun. 2022). a) DDMS (92/105) 88% b) CBMS (20/45) 44% Note: Challenges of CBMS, 1. Requirement of rehabilitations beyond the capacity of the communities. 2. Social issues like low motivation of WSC members and negative attitudes of water users. 	<p>Achieved in DMS But CBMS has challenges</p>
<ul style="list-style-type: none"> - O&M of piped water supply facilities is 	<ul style="list-style-type: none"> - The O&M of following 6 piped water 	<p>Achieved</p>

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<p>improved where activities are implemented.</p>	<p>supply facilities were supported their management through the activities of the JICA long term expert;</p> <ul style="list-style-type: none"> 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 	
<p>Output 4: Capacity to supervise development of rural water supply facilities is strengthened.</p>		
<ul style="list-style-type: none"> - More than 12 staff from RWSSD and the target districts in charge of rural water supply and sanitation complete the training. 	<ul style="list-style-type: none"> - The following staff was trained as a supervisor during rehabilitation works, <ul style="list-style-type: none"> 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 	<p>Achieved</p>
<p>Output 5: Proposed ODF practices in the selected communities implemented.</p>		
<ul style="list-style-type: none"> - Proposed methodology to effectively promote ODF are presented and tested. 	<ul style="list-style-type: none"> - CLTS activities are implementing in 68 villages in Mubende and Kassanda district. <ul style="list-style-type: none"> a) 18 sub county meetings are held. b) Baseline survey was completed. c) Triggering was done in 68 villages. d) Capacity building for Sanitation Committee in 68 villages. e) Five times of follow up activities were held in 68 villages. 	<p>Achieved</p>

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	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
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.		
- Lessons learnt 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 nd 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

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	<p>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.</p> <ul style="list-style-type: none"> - The share of good practices and lessons learnt will be continued by MWE through the rollout phase of DMS+Sunda after the Project. 	
<ul style="list-style-type: none"> - At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organized. 	<ul style="list-style-type: none"> - Stakeholder meeting with MWE staff, Mubende DWOs, and 5 NGOs in May 2018 - 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 	Achieved

1-4 Achievement of the Project Purpose

- Indicator No.1: The target is 85%. It was achieved.

District	Deep boreholes			Functionality
	Functioning	Non Functioning	Total	
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%

*Uganda Water Supply ATLAS, 19 June 2022

- Indicator No.2: The target is 70%. It was achieved.

District	WSC Functional		Management
	WSC established	WSC functional	
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%

*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").

- Indicator No.3: 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)
- Indicator No.4: 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%.
- Indicator No.5: 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 & Maintenance 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: 6.8 years from the date when the first JICA Expert is dispatched

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

Ver. 10


June 2022

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>Overall Goal Operation & maintenance (O&M) policy and system of rural water supply facilities improved by the Central Government are adapted to wide area in Uganda</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the Central Region is improved Households access to latrines and hand washing facilities in the Central Region is increased Issued guidelines are used to inform O&M policy. 	<ol style="list-style-type: none"> Sector Performance Report Issued guidelines / proposal of policy change 	<ul style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Functionality is increased from 81% to 86.1%. The rate of FWSC is increased from 51% to 86.8%. DMS: 70% of borehole have had no breakdown. CBMS: 1-2 days for major repair, 1-2 weeks for minor repair. Household access is increased from 4.8% to 18.9%. Revision of the guidelines were approved in 9th JCC meetings. 	
<p>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</p>	<ol style="list-style-type: none"> Functionality of rural water supply facilities in the target districts is increased from 81% to 85%. The rate of WSC collecting water charges and conducting maintenance of rural water supply facility in the target districts is increased from 51% to 70%. The downtime of rural water supply facilities is reduced in the target districts. Household access to sanitation facilities with hand washing facilities in the selected villages is increased from 4.8% to 13.0%. Revision of the guidelines for the O&M rural water supply facilities are proposed in the recommendations. 	<ol style="list-style-type: none"> Sector Performance Report 2~4. Project documents 5. Project recommendation report 	<ul style="list-style-type: none"> Financial resources currently allocated to the target districts are not significantly decreased 	<p>Capacity development strategy was documented as the Technical Note discussed in the 3rd JCC meeting. The challenges of CBMS had been detected as results of baseline survey as follows.</p> <ul style="list-style-type: none"> Shortage of human resources and lack of transportation Too many facilities are spread in the whole area of the sub county The budget line of the central government and the local government are separated. 	
<p>Outputs 1. Strategy for capacity development in O&M of rural water supply facilities and improvement of H&S condition is formulated</p>	<ol style="list-style-type: none"> Project approach for capacity development on O&M of rural water facilities and improvement of H&S condition is formulated as document 	<ol style="list-style-type: none"> Project documents 	<ul style="list-style-type: none"> Financial resources currently allocated to the target districts are not significantly decreased 	<p>Capacity development strategy was documented as the Technical Note discussed in the 3rd JCC meeting. The challenges of CBMS had been detected as results of baseline survey as follows.</p> <ul style="list-style-type: none"> Shortage of human resources and lack of transportation Too many facilities are spread in the whole area of the sub county The budget line of the central government and the local government are separated. 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>2A. O&M support system of rural water supply facilities in the public and private sectors is strengthened in the target districts</p> <p>2B. A new O&M support system of rural water supply facilities related to user fee collection is formulated.</p> <p>3. Operational and management capacity of Water and Sanitation Committee (WSC) is strengthened in the target districts</p>	<p>2A-1 Training program on O&M of rural water supply is formulated.</p> <p>2A-2 More than 20 staffs from RWSSD and the target districts in charge of water supply and sanitation receive the ToT.</p> <p>2A-3 The water service provider (the Service Centre) is established and functioning under the pilot subprogram.</p> <p>2A-4 O&M activities are implemented based on the annual workplans.</p> <p>2A-5 At least 24 boreholes are rehabilitated in target districts.</p> <p>2A-6 At least two Hand Pump Mechanics (HPMs) are trained on site in each sub-county.</p> <p>2A-7 HPMAs in the target districts undertake repairs of hand pumps.</p> <p>2A-8 Activities of the Service Centre monitored at least 5 times during the extension period.</p> <p>2A-9 Submission of monthly progress report and quarterly performance report on key core activities of the Service Centre to Joint Management Committee (JMC).</p> <p>2B-1 Recommendation on most effective methodology of user fee collections in relation to the type of communities is made.</p> <p>3-1 More than 85% of WSCs which are trained in the Project are functional.</p> <p>3-2 O&M of piped water supply facilities is improved where activities are implemented.</p>	<p>2A-1~7 Project documents</p> <p>2A-8 Monitoring reports</p> <p>2A-9 Record of submission</p> <p>2B-1 Documented Best of Practice (BoP)</p> <p>3-1~2 Project documents</p>	<p>MWE decided to establish the Service Centre as the pilot project in Mubende which can provide direct support to communities.</p> <p>2A-1 Formulation of materials for ToT of DMS and CBMS for relevant district staff and sub-county staff.</p> <p>2A-2 45 staff in total</p> <p>2A-3 Service Centre started its operation in April 2018. It has been functioning until June 2022.</p> <p>2A-4 Project Team supported borehole diagnosis, rehabilitation work and water quality analysis.</p> <p>2A-5 Borehole rehabilitation is completed for 96 sites including apron and fence.</p> <p>2A-6 Trainings for 2 HPMs from each sub-county (70 HPMs in total) were conducted in target districts.</p> <p>2A-7 Mubende HPMA undertakes repair of hand pumps through the Service Centre. HPMA in Kiboga, Mpigi and Butambala works under the MoUs with the district local governments.</p> <p>2A-8 1st monitoring was done in the 2nd JMC meeting on 31st January 2020. After that, the activities are monitored monthly through SNS.</p> <p>2A-9 1st monthly progress report was submitted in the 2nd JMC meeting on 31st January 2020. The quarterly performance reports were documented by the Administrator. (1st and 2nd Quarter of 2020). But the reports were not submitted periodically. On the other hand, activities were shared by e-mail and SNS by the Service Centre.</p> <p>2B-1 DDMS+SUNDA is the best solution. It was confirmed at the 8th JCC meeting in October 2021.</p> <p>3-1 DDMS (9/21/05) 88%, CBMS (2/0/45) 44%. Note: Challenges of CBMS,</p> <ol style="list-style-type: none"> 1. Requirement of rehabilitation beyond the capacity of the communities. 2. Social issues like low motivation of WSC members and negative attitudes of water users. <p>3-2 The management of O&M of 6 piped water supply facilities were supported through the activities of the JICA long term expert (Mr. Sakamoto).</p>		

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
<p>4. Capacity to supervise development of rural water supply facilities is strengthened</p> <p>5. Proposed ODF practices in the selected communities implemented.</p> <p>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.</p>	<p>4-1 More than 12 staffs from RWSSD and the target districts in charge of rural water supply and sanitation complete the training</p> <p>5-1 Proposed methodology to effectively promote ODF are presented and tested.</p> <p>5-2 The results of activities are compiled, and lessons learnt are extracted for recommendation on future effective implementation of CLTS interventions.</p> <p>6-1 Lessons learnt and good practice is documented.</p> <p>6-2 Recommendations on proposed revisions of existing hand books and manuals are made.</p> <p>6-3 Documented good practice and proposed revisions are shared.</p> <p>6-4 At least two times of learning opportunities (e.g. workshops) to disseminate good practices and lessons learned are organized.</p>	<p>4-1 Project documents</p> <p>5-1~2 Project documents</p> <p>6-1~4 Project documents</p>		<p>4-1 The staff (26 in total) participated supervision activities during rehabilitation works.</p> <p>5-1 CLTS activities are implementing in 68 villages in Mubende and Kassanda district.</p> <p>5-2 The handbook or ODF activities was produced and approved by MWE.</p> <p>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.</p> <p>6-2 The final version of related documents of DMS were approved in in the JCC meeting on 22nd June 2022.</p> <p>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.</p> <p>JICA Uganda office leads the site visit in Mubende with 5 DPs (ADA, UNHCR, KOICA, Food for Hungry and Achest) in June 2022.</p> <p>6-4 Two times of booth exhibitions, three times of meeting with developing partners, one site excursion to Mubende District with developing partners.</p>	

Activities	Inputs	Important Assumption
<p>【Activities for Output 1】</p> <p>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</p> <p>1-2 Review existing policy framework and laws regarding O&M of rural water supply and sanitation to clarify responsibilities and challenges of stakeholders</p> <p>1-3 Conduct baseline surveys in the target districts</p> <p>1-4 Share findings of good practices and lessons learnt of rural water supply and sanitation at the WG and prepare a report of the present situation and challenges</p> <p>1-5 Formulate a project approach for capacity development of relevant institutions based on the results of activities 1-2~1-4</p> <p>1-6 Formulate PDM(ver. 1) and PO(ver. 1)</p>	<p>The Japanese side</p> <p>1. Personnel: - Chief Advisor/Rural Water Supply/Organizational Management - O&M of Rural Water Supply - Facilities (Hand pump) - Rehabilitation of Rural Water Supply Facilities (Hand pump) - Hydrogeology - Hygiene and Sanitation - O&M of Rural Water Supply / Project Coordination - Other experts if necessary</p> <p>2. Equipment: Office equipment, two vehicles, tools, and others</p> <p>3. Training in Japan and/or a third country</p> <p>4. Project activities fee</p>	<p>The Ugandan side</p> <p>1. Allocation of counterparts and administrative personnel - Project Director - Project Manager - Counterparts</p> <p>2. Equipment Two vehicles, equipment and materials for administration of the Project</p> <p>3. Allocation of office space and facilities - Working space for JICA experts in Kampala and the target districts - Other necessary facilities, equipment and materials for administration of the Project</p> <p>4. Counterpart-related costs (including salary, allowance and traveling cost for counterparts)</p> <p>5. Running expenses necessary for the implementation of the Project</p> <p>6. Allocation of necessary human resources to run the service centre in target districts.</p>
<p>【Activities for Output 2】</p> <p>2A-1 Formulate training programs on O&M planning to relevant institutions</p> <p>2A-2 Support RWSSD and the target districts to conduct training for capacity development to the relevant institutions.</p> <p>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 up ordinances for the pilot subprogram, and select the target sub-counties and the target WSCs.)</p> <p>2A-4 Support RWSSD and the pilot district to implement the pilot subprogram on O&M (establish water service provider support management & operation of the provider)</p> <p>2A-5 Support RWSSD and the pilot district to implement M&E of the pilot subprogram on O&M.</p> <p>2A-6 Support the target districts to formulate the annual work plans and implement activities (e.g. borehole diagnosis and rehabilitation, water quality analysis, etc.) based on the annual work plans.</p> <p>2A-7 Project Team undertakes rehabilitation in the target districts.</p> <p>2A-8 Support the target districts to form HPMA.</p> <p>2A-9 Support the target districts to conduct training to HPMA and HPMA.s.</p> <p>2A-10 Support the trained HPMA.s to conduct diagnosis and repair on rural water supply facilities.</p> <p>2A-11 Support the pilot district to guide the management of HPMA.s to enhance its function.</p> <p>2A-12 Support the pilot district to implement M&E of HPMA.s activities.</p> <p>2A-13 Improve the supply chain of spare parts in the pilot district.</p> <p>2A-14 Hold a periodic meeting with all TSUs to share progress, ideas, and issues of on-going activities.</p> <p>2A-15 Review the documents related to operation of the service center (e.g. regulations, manuals, work flow etc).</p> <p>2A-16 Draw up monitoring check sheets and progress report and performance report format for operation of the service center.</p> <p>2A-17 Support RWSSD for preparing budget request for operation of the service center.</p> <p>2A-18 Train the Service Centre staff on key core activities (administrative, finance, technical, society and people) of the Service Centre.</p> <p>2A-19 Monitor the work under 2A-18 based on the monitoring check sheets.</p> <p>2B-1 Run a trial on mobile money transfer in the selected project communities.</p> <p>2B-2 Run a trial on an automated collection system in the selected project communities.</p> <p>2B-3 Run a trial on reducing the frequency of manual water fee collection.</p> <p>2B-4 Run a trial on an incentive and/or reward system for WSCs and caretakers in the selected</p>		

<p>project communities.</p> <p>2B-5 Compile the individual performance of 2B-1 to 2B-4 and determine the best practices.</p> <p>【Activities for Output 3】</p> <p>3-1 Support the target districts to formulate the WSC training program</p> <p>3-2 Support the target districts to implement capacity development of WSCs</p> <p>3-3 Support the target districts to implement monitoring and evaluation (M&E) of WSCs activities</p> <p>3-4 Support the pilot district to implement regeneration of WSCs in the pilot subprogram.</p> <p>3-5 Support the pilot district to implement awareness campaign to water users in the pilot subprogram.</p> <p>3-6 Support WSCs to implement M&E of the pilot subprogram.</p> <p>3-7 Support the target districts to take corrective actions based on the results of M&E</p> <p>【Activities for Output 4】</p> <p>4-1 Formulate training program (e.g. steps and techniques for borehole siting, customization of hand pump facility resistant to poor water quality, supervision of construction and installation of hand pumps, etc.) to RWSSD and DWOs.</p> <p>4-2 Implement the training program to RWSSD and DWOs.</p> <p>4-3 Support RWSSD and the target districts to implement supervision of borehole drilling, construction, and rehabilitation.</p> <p>4-4 Implement M&E of supervision activities for borehole drilling, construction, and rehabilitation.</p> <p>【Activities for Output 5】</p> <p>5-1 Project Team selects target villages and schools for CLTS sensitization and target demo sites for latrine construction in Mubende.</p> <p>5-2 Project Team makes a roll-out program and coordinates with Sub-county staff.</p> <p>5-3 Project Team conducts a baseline survey at selected sites.</p> <p>5-4 Project Team conducts CLTS sensitization (triggering to monitoring) and latrine construction demos.</p> <p>5-5 Project Team compiles lessons learnt including categorized approaches for behavior change and demo latrine designs as documents from the implemented interventions.</p> <p>【Activities for Output 6】</p> <p>6-1 Summarize good practices and lessons learnt from the activities related to Outputs 2~5.</p> <p>6-2 Propose revision of the existing handbooks and training manuals regarding O&M based on the activities of Outputs 2~5</p> <p>6-3 Organize learning platforms to disseminate good practices and lessons learned obtained at the activity 6-1</p> <p>6-4 Share good practices and lessons learned from the Project with stakeholders in the water and sanitation sector.</p>	<p>Pre-Conditions</p> <p>■ The budget for the Project to be borne by the Ugandan side is secured</p>  <p><Issues and Countermeasures></p> <p>MWE and the Project Team have made an agreement on the budgetary steps of Ugandan side by the Minutes of Meeting dated Dec. 6, 2016 witnessed by JICA.</p> <p>Bank account for the project was opened (8th September 2017).</p> <p>Allocation and disbursement of project funds to the project account is executed on 18th October.</p>
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