Annex 5: Monitoring Sheet

- Monitoring Sheet Version 1
- Monitoring Sheet Version 2
- Monitoring Sheet Version 3
- Monitoring Sheet Version 4
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TO CR of JICA Uganda OFFICE

PROJECT MONITORING SHEET

Project Title: Improvement of Health Services Through Health Infrastructure Management II Version of the Sheet: Ver. 01 (Term: 15th July, 2016 - 19th December, 2016)

Name: Hiroshi Tasei

Title: Chief Advisor

Submission Date:27th December 2016

I. Summary

1 Progress

1-1 Progress of Inputs

1) Dispatch of Project Expert Team

Assignment of Project Experts is as shown below.

Name				201	6			Total
Name	6	7	8	9	10	11	12	(days)
Hiroshi Tasei Chief Adviser/QI Management System 1							158	158
Shizu Takahashi Vicw Chief Adviser/QI Management System 2					30			30
Naoki Take 5S-CQI-TQM①			15			75		90
Yujiro Handa 5S-CQI-TQM②				15		16		31
Yasuhiro Hiruma Utilization of Medical Equipment					66	24		90
Naoki Mimuro Maintenance of Medical Equipment						70		70
Emi Onosaka Project Coordinator/Training Management				60			69	129

2) Provision and Furnishing of Project Office in MoH Headquarters

• The Ministry of Health (MoH) provided the same project office as that of the previous phase of the project (P1) for the project team to work in MoH headquarters building as well as two photocopy machines and office furniture that were procured through P1. And MoH also provided the same office in the Central Workshop (CWS) as that of P1.

3) Procurement of Equipment

• Two 4-wheel-drive vehicles have been procured for the ongoing project by JICA Uganda.

4) Tanzania KAIZEN Training of Trainers (TOT)

 The Ministry of Health, Community Development, Gender, Elderly and Children in Tanzania organized a Training of Trainers KAIZEN Approach from 28th November - 2nd December 2016 at the Assistant Medical Officer's training school in Mbeya Zonal Referral Hospital in Tanzania. Two participants from Uganda were invited to participate in this training. The purpose of the training was to build participants' capacity in terms of skills and knowledge on the KAIZEN Approach for hospital management improvement. Participants from Uganda were:

1) Dr. Obonyo John Hyacinth, Principal Medical Officer (PMO), Department of Clinical Services (Clinical Services)

2) Mr. Kamugisha Pidson, Nursing Officer (NO), Kabale Regional Referral Hospital (RRH) However, two participants could not attend the TOT because their flights were cancelled.

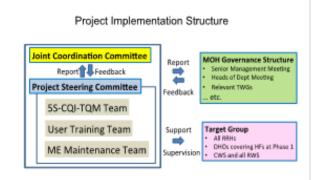
1-2 Progress of Activities

1-2-1 Activities of Output 1

1) Establishment of project Implementation structure

• The kick-off meeting of the project was held on 6th September, 2016 and was chaired by Asst. Commissioner of Integrated Curative Services, Dr. Jackson Amone, on behalf of the Commissioner of Clinical Services who is the project manager, Dr. Amanudua Jacinto. The project focal persons discussed about the project implementation structure for the current

phase project (P2) in the structure drawing. The Project Steering Committee (SC) provides technical direction to project activities according to reviewing and monitoring overall activities. SC will conduct meetings every three months. The Implementation Teams the are implementation body of the project activities. The teams as indicated will



conduct project activities specified in Work Plans.

2) Conduct situation analysis of each component

• Each Implementation Team conducted situation analysis for all of the targeted hospitals and workshops to understand the actual performance and provide information to set the indicator goals of the project, and also aim at elaboration of project activities. The situation analysis schedule of each team is as shown below.

> 5S-CQI-TQM

Date: 3rd - 14th October

Team members: MoH staff (Clinical Services, Nursing and Quality Assurance Department (QAD), Project Experts

Targets: All Regional Referral Hospitals (RRH), two General Hospitals (GH) (Entebbe and Tororo) and two District Health Teams (Wakiso and Tororo)

> Utilization of Medical Equipment (User Training)

Date: 19th September - 7th October

Team members: MoH staff (Clinical Services), Project Experts

Targets: All RRHs and one GH (Entebbe)

Maintenance of Medical Equipment Date: 19th – 30th September, 5th – 12th October Team members: Engineers from CWS, Project Experts Targets: All Regional Workshops (RWS)

1-2-2 Activities of Output 2, 3

1) Leadership Improvement Seminar

 The seminar was conducted at Fairway hotel in Kampala on 10th – 11th November. Participants in the seminar included heads and administrators of all target facilities. The program of the seminar focused on building mindsets of hospital managers towards continuous quality improvement. The two-day seminar was supported by Project Experts.

1-2-3 Activities of Output 4

- 1) 1st Leadership and Management Training for Workshop Managers and Senior Technicians of Regional Medical Equipment Maintenance Workshops
- The training was conducted at CWS in Kampala on 7th 10th November. Participants for the training included Workshop managers and senior technicians in different Workshops. The training program was basically leadership, managerial skills, inventory analysis and store management. The training was conducted by MoH, Project Experts, and external lecturers.

1-3 Achievement of Output

1-3-1 Output 1

1) Establishment of project Implementation structure

- Counterparts and Project Experts have understood the implementation structure of P2 and its activity directions.
- The Implementation Teams have conducted situation analysis for all of the target facilities and developed Work Plans.

2) Development of Work Plans

The following activities are planned based on the situation analysis.

-Define criteria for national show case and review a national show case(s):

From December 2016 to March 2017 (Original plan; September 2016)

-Review existing supervision system of MoH

From December 2016 to April 2017 (Original plan; October 2016)

-Integrate components of 5S-CQI-TQM, UT, and ME maintenance to the supervision system

From December 2016 to October 2017 (Original plan; October 2016)

-Hold SC meetings at least bi-monthly with the project

Every three months (Original plan; Bi-monthly)

1-3-2 Output 2,3

1) Situation analysis of each component

• 5S-CQI-TQM

> 5S performance

All observed hospitals except Entebbe face common challenges in S4 (Standardise) and S5 (Sustain), although Mbale, Kabale and Mubende RRH have the level of "Fair". Good performers in 5S are both from a group of hospitals targeted by P1 and those newly covered by P2. It cannot be said that P1 hospitals are superior to P2 hospitals in general.

> CQI

Many RRHs are trained in quality improvement in general including 5S and CQI by Strengthening Uganda's Systems for Treating AIDS Nationally (SUSTAIN). Quality Implementation Team (QIT) focal persons, therefore, have at least attained some knowledge.

Functionality of QIT

Good performers of 5S (especially Mbale, Kabale, Jinja and Mubende RRH) have common factors on functionality of QIT such as active focal persons, hospital administrators and regular internal supervision. However, many hospitals observed are struggling to functionalise QIT.

> Supervision on 5S-CQI-TQM

Periodical supervision from the central government has not been conducted. And supervision of lower facilities has not been performed in most cases because of financial difficulties. However, the Health Facility Quality of Care Assessment Program (HFQAP) has been launched and the 1st Hospital assessment has been conducted with its assessment tools. Results of the assessment were reported in the National Quality Improvement Conference 2016. The project shall review and revise the existing supervision system and tools through enrichment of checklists of HFQAP. And 12 national facilitators are still functioning. It is necessary to develop additional national facilitators (at least 30) for effective supervision.

> Budget for 5S-CQI-TQM Practice

Many hospitals observed face difficulties to ensure the budget for 5S and CQI activities except support from Implementing Partners (IP).

> Development of contents of activities

Contents of activities should be developed based on the current performance of 5S practice. The hospitals are divided into four categories as shown below:

Category 1: Entebbe, Mbale, Kabale (from P1) and Mubende RRH (from P2)

These hospitals were institutionalized to have good work environments with certain levels of S4 and S5. They can move forward to CQI.

♦ Category 2: Arua, Moroto (from P1) and Jinja RRH (from P2)

These three hospitals are prospective targets to improve the work environment, although they face challenges to establish the base of S4 and S5. It is necessary to deal with them through

supervision, mentorship and coaching. **A study tour** is also an opportunity to learn from good practices.

Category 3: Hoima, Lira, Masaka, Tororo (from P1) and Mbarara RRH(from P2)

These hospitals have been stagnating or declining in 5S performance. Mbarara RRH is a beginner in 5S but the situation is better than the four hospitals in category 4. **Refresher training** is a requisite, followed by **mentorship, coaching and a study tour**.

♦ Category 4: Fort Portal, Gulu, Naguru and Soroti RRH (all from P2)

These four hospitals are categorised as "almost no" 5S or very poor performers. They need to be **trained in 5S from the beginning**, followed by **mentorship, coaching and a study tour**. Leadership training for administrators for all targets is also necessary.

> Development of Work Plans

The following activities are planned based on the situation analysis.

- Leadership Improvement Seminar; November 2016
- Facilitators' training (Refresher training); December 2016 and January 2017

(Original plan; October 2016)

- Development of guidelines, manuals etc.; From January 2017 to June 2017

(Original plan; From October to December 2016)

- 5S-CQI-TQM training
- Support supervision, mentoring and coaching
- Monitoring and evaluation of 5S-CQI-TQM performance
- Study tour
- Assessment on effectiveness of CQI practice on service quality

• Utilization of Medical Equipment (User Training)

> Current status of User Training in P1

- ♦ 16 active User Trainers at present were confirmed in P1 hospitals.
- ✦ The table below shows the number of User Training (UT) programs conducted by existing User Trainers and the number of participants after P1 was completed. The amount of trainings conducted in Arua is high because of the Institutional Capacity Building Project in Planning Leadership and Management in the Uganda Health Sector Phase 2 (ICB2 project) by Belgian Technical Cooperation (BTC) supported UT activities since 2013.

P 1 hospital	Arua	Lira	Mbale	Kabale	Hoima	Masaka	Entebbe	Moroto
No of trainings held	117	11	12	22	8	26	26	5
No trained staff	1220	171	315	443	145	251	149	159

> New User Trainers for P2 hospitals

- ✤ 14 candidates are nominated from P2 hospitals as new User Trainers according to the following criteria.
 - Age limits: persons older than 30, but less than 45.
 - Middle cadres with at least 10 years' nursing experience.
 - Persons who are diligent and interested in learning.
 - Each hospital to nominate 2 staff nurses.

- 2 staff nurses who are unlikely to transfer or unlikely to be off station for at least the four years of the project.

> Development of Work Plans

- ♦ The following activities are planned based on the situation analysis.
 - Development of guidelines, manuals etc.; From January 2017 to May 2017

(Original plan; From October to December 2016)

- Refresher and management training for P1 User Trainers
- TOT for P2 User Trainers
- Support Supervision

2) Leadership Improvement Seminar

- The seminar has been conducted according to the planned schedule, and total participants were 26: Moroto (1), Mbale (2), Hoima (1), Kabale (2), Masaka (2), FortPortal (2), Soroti (2), Gulu (2), Mbende (1), Jinja (2), Mubarara (2), Lira (1), Naguru (2), Entebbe (3), Wakiso (1) with Arua RRH, Tororo GH and Tororo District Health Officer (DHO) absent. However, textbooks that were used during the seminar shall be delivered to Arua RRH, Tororo GH and Tororo DHO.
- The leadership training should play an important role at the initial stage of the project to enable commitment to quality improvement of the services.

1-3-3 Output 4

1) Situation analysis

• Inventory management

It still faces the challenges of periodical updating, data cleaning and analyzing due to inadequate knowledge and skills. The general performance of routine maintenance work improved at most Workshops from 2012-2014, the period of P1. The four Workshops of Fort Portal, Lira, Kabale and Central excelled in general workshop functions and management compared to the other Workshops.

• Development of Work Plans

The following activities are planned based on the challenges identified.

- Development of guidelines, manuals etc.; From January 2017 to May 2017

(Original plan; From October to December 2016)

- Leadership and management training for Workshop managers and technicians

- Skill-up training on maintenance of basic medical equipment
- Skill-up training on maintenance of specialized equipment
- Strengthen capacity of CWS and Health Infrastructure Division (HID) to support the other Workshops
- Development of a system for sharing knowledge and skills among Workshops
- Procurement of maintenance tools and equipment
- 2) 1st Leadership and Management Training for Workshop Managers and Senior Technicians of Regional Medical Equipment Maintenance Workshops

There were 29 participants in the training and these included all regional Workshop managers, and technicians from CWS. The training was conducted as planned in the schedule. Pre/Post tests for the training were conducted for all participants. All participants increased their scores after training and the average score increased from 39.3 to 73.3, as shown below.

Training contents	Total	PRE Avg.	POST Avg.	Differences
Leadership	29	14.4	19.3	4.9
Planning and budgeting	15	6	12.8	6.8
Procurement Management	27	11.3	20.9	9.6
Stores & Inventory Management	14	5.1	11.7	6.6
Inventory update & Analysis	9	2.5	9.4	6.9
Total score (94)	94	39.3	73.3	34
%	100	41.8	78	36.2

1-4 Achievement of the Project Purpose

- 1) Counterparts and Project Experts achieved sharing the understanding of the project purpose of Quality Improvement activities as well as health infrastructure management that is in line with the strategy of MoH. Especially, quality improvement activity is guided by the Uganda Health Sector Quality Improvement Framework and Strategic Plan (2015/2016-2019/2020).
- **2)** Counterparts and Project Experts have understood that development of an effective supervision mechanism shall be in line with HFQAP implementation.
- **3)** The project has just started and situation analysis of each component has been done. The project has not been reached a stage to indicate efficiency and impact. However, the progress of project activities is slower than expected.

1-5 Changes of Risks and Actions for Mitigation

1) When the project was started in July, the budget of MoH for fiscal 2016/2017 was already allocated. MoH, therefore, could not provide the necessary funds (allowance, etc.) for project activities. Two activities of the project, "Leadership and Management Training for Workshop

Managers and Senior Technicians of Regional Medical Equipment Maintenance Workshops" and "Leadership Improvement Seminar" have been conducted and funded by JICA. And two activities, User Trainer Refresher training and facilitators' training, were postponed to next year because other mitigation issues have not yet been solved.

1-6 Progress of Actions Undertaken by JICA

- **1)** Providing of assistance for furnishing of project office in MoH and procurement of two project vehicles.
- **2)** Attending part of the "Leadership and Management Training for Workshop Managers and Senior Technicians of Regional Medical Equipment Maintenance Workshops" and "Leader ship Improvement Seminar".
- 3) Participating in discussions with MoH regarding counterpart funding for next fiscal year.

1-7 Progress of Actions Undertaken by Government of Uganda

1) MoH has committed itself to provide adequate funds for project activities for the year 2017/2018 up to the end of the project.

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

1) Counterparts and Project Experts shall consider that the objectives of activities are not only to target facilities but also aim to at social environment improvement. One of the project activities, i.e., the concept of waste segregation management is a positive influence to change the environment.

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

- 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.)
- 1) The Preparatory Survey for the grant aid project by the Japanese government for improvement of northern Uganda Hospitals (Arua, Gulu and Lira RRH) started in November 2016. The target facilities of the grant aid project are part of the project site. It is expected to instill a positive influence for motivation of hospital staff to improve the workplace environment.
- 2) SUSTAIN, supported by USAID, supports MoH to strengthen comprehensive HIV/AIDS care, prevention, laboratory and tuberculosis services at selected RRH and one Health Center. SUSTAIN's QI work is being done in collaboration with QAD of MoH and Applying Science to Strengthen and Improvement System (ASSIST). The 5S national facilitators who were trained through P1 are being utilized as QI trainers of the SUSTAIN and ASSIST projects. SUSTAIN supports CQI activities in 14 hospitals including RRH.
- **3)** ASSIST, supported by USAID, is providing direct support for improving HIV and family health services to sites in northern Uganda. It is also supporting the institutionalization of QI into the health sector through providing direct technical support to the QAD of MoH in overseeing and

coordinating QI activities. It is expected to co-work in support supervision in target facilities of the project.

4) The ICB2 project supported by BTC is to strengthen the planning, leadership and management capacities of (public) health staff, specifically at the decentralized local government level. The target of the ICB2 project is West Nile and Rwenzori including RRH. The ICB2 project is also supporting the rolling out of User Training activities in West Nile and Rwenzori.

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

2-1 Details

- 1) Refresher training for User Trainer and 5S facilitators was postponed.
- 2) The first JCC is not held as scheduled.
- 3) Updating of manuals, handbooks and monitoring tools is not complete.

2-2 Causes

- 1) MoH could not allocate necessary budget for the project activities in fiscal 2016/2017.
- 2) Finalizing of modification for PDM v.0 is not complete.
- **3)** Guidelines for facilitators and QI tools are being prepared by QAD and will be finalized in 3rd quarter of 2016/2017 or later so that updating of project material will then follow.

2-3 Action to Be Taken

- 1) Clinical Services shall discuss with the Department of Planning to allocate adequate funds for the project activities in fiscal 2017/2018.
- **2)** The project shall finalize PDM ver.1 as soon as possible. PDM ver.1 shall be approved in the next JCC.
- **3)** Updating of QI materials will start in the beginning of 2017.

2-4 Roles of Responsible Persons/Organization (JICA, Government of Uganda)

1) Dr. Amandua, Commissioner of Clinical Services as well as the project manager, retires in December 2016, and this, therefore, calls for an appointment of a successor for the position as soon as possible.

3 Modification of the Project Implementation Plan

3-1 PDM

1) After situation analysis of all implementation components, several changes were found in target facilities as well as the situation of assistance of other implementation partners since P1 was completed. Based on the analysis of 5S-CQI-TQM performance, all P1 hospitals as Output 2 are not superior to P2 hospitals as Output 3. Outputs 2 and 3 shall be revised 5S-CQI-TQM as Output 2 and UT as Output 3. The project has proposed to JICA headquarters to revise PDM v.0 in a much clearer copy for realization of the project activities design.

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.)

II. Project Monitoring Sheet I & II as Attached

Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: Project on Improvement of Health Service through Health Infrastructure Management (II)

Implementing agency: Department of Quality Assurance, Ministry of Health (MOH) (5S-CQI-TQM)

Integrated Curative Services Division, Department of Clinical Services, MOH (Utilization of Medical Equipment)

Health Infrastructure Division, Department of Clinical Services, MOH (Maintenance of Medical Equipment)

Target Group: (1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe General Hospital (GH), Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, Moroto RRH, Mukuju HC IV, Tororo GH

(2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital

Period of Project: July 2016- July 2020

Project Site: Republic of Uganda

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	
Overall Goal	Clients' satisfaction level is improved to the target level. (XX) Clients' waiting time of patients for consultation, testing,	Health Management Information System (HMIS)		
	clinical examination, and prescription of drugs are reduced	Annual Health Sector Performance Report (AHSPR)		
Quality of health care services at all the RRHs in Uganda is improved.	 Yx%, Maintenance cost regarding medical equipment is decreased in XX%. 	Periodical monitoring reports by QITs at target hospitals		
		•Supervision reports made by the steering committee for the project		
		Baseline and end-line data		
		Quarterly regional workshop maintenance report		The second set has
Project Purpose	•Score sheet of 5S-CQI-TQM on targeted hospitals become more than XX%.	Minutes of steering committee meetings	 Government budget for the RRHs will not be deceased significantly. 	The project has analysis of each project has not l efficiency and ir
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of	•The number of CQI practices becomes more than XX (number).	Reports of steering committee	•Government budget for the workshops will not be decreased significantly.	project activities
MOH.	 Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times. 	•Reports from 5S trainers	 Political situation in Uganda remans stable. 	
	Percentages of status A of ME becomes higher than XX%	Score sheets of 5S-GQI-TQM at targeted hospitals.		
Output				Output 1
	1-1 PDCA cycle of supporting and supervising RRHs is completed once a year or more.	Plans and periodic reports made by steering committee	 Personnel of counterparts do not leave the job and are not transferred considerably. 	-Counterparts a established Imp project activities -Each Implement
1. Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH	1-2 The number of supervision conducted by steering committee becomes more than XX times.	Activity records made by steering committee of MOH	 Policy related to health infrastructure management will not be changed as a result of the presidential election. 	situation analys and developed Output 2,3
	1-3 Number of training organized by Technical Working Group (TWG) becomes more than XX times.	•Records and results of supervision conducted by steering committee		-The Leadership Output 4 -1st Leadership
	1-4 Number of certified national CQI facilitators from MOH become more than XX.	•Test results and certification issued for CQI trainers at MOH		Workshop Man Regional Medic
	2-1 Number of the phase 1 targeted hospitals which started CQI activities becomes more than XX.	Activity records of QITs		Workshops has
	2-2 Number of the phase 1 targeted hospitals which completed CQI process at least with one unit becomes more than XX.	Activity records of WITs		
 Implementation mechanism of the phase 1 targeted hospitals aimed at CQI level for resource management and quality improvement is established to function as leading cases based on the outcomes of the phase 1. 	2-3 Number of UT conducted by regional trainers is more than XX times.	•Training records on UT conducted by user trainers		
	2-4 Number of functioning WITs in target hospitals reaches the level of 10 under the 5S-CQI-TQM implementation becomes more than XX.	Score sheets of 5S-CQI-TQM		
		Project report about CQI activities		
		Supervision reports made by TWG		
	3-1 All the phase 2 targeted hospitals implement QIT activities including 5S-CQI-TQM.	•Number of QITs and their activity records		
	3-2 Average of comprehension rate of trainees after user training becomes higher than XX%.	•Monitoring and meeting minutes of QITs related to 5S-CQI-TQM		
3. Foundation for implementation mechanism of the phase 2 targeted hospitals for resource management and quality improvement is introduced and established.	3-3 More than 1 regional 5S facilitators at each phase 2 targeted hospitals are trained.	•Supervision report made by TWG		
	3-4 More than 2 regional user trainers at each phase 2 targeted hospitals are trained.	•Results of pre and post tests for trainees of UT Training records on TOT for 5S-CQI-TQM		
		•Training records on TOT for UT		
	4-1 Trained staff of all the workshops improve their	Training records related to ME maintenance	1	
4. ME maintenance and management capacity of workshops (WS) are strengthened.	knowledge by XX% after ME maintenance training. 4-2 Percentages of ME in status E lowered by XX%.	Results of pre and post tests for trainees of ME maintenance		
		Inventory lists of each workshop		
			1	

Version 1 as of 19th December, 2016

Dated 27th December, 2016

Achievement	Remarks
as just started and situation	
ach component has been done. The ot been reached a stage to indicate d impact. However, the progress of	
ies is slower than expected.	
s and Project Experts have nplementation Teams to direct ies.	
nentation Team has conducted ysis for all of the target facilities ed Work Plans.	
hip seminar has been conducted.	
hip and Management Training for anagers and Senior Technicians of dical Equipment Maintenance as been conducted.	

Activities		Inputs	
Activities 1-1 Establishment of foundation for the project and implementation	The Japanese Side	The Uganda Side	Important Assumption
1-1-1 [MOH] Establish TWG for the phase 2 project	1. Dispatch of Experts	1. Assignment of Counterparts	
1-1-2 [MOH] Select focal persons for 5S, user training (UT), and medical equipment (ME)	1) Chief advisor / QI Management System	2 Excilition	
maintenance 1-1-3 [TWG] Develop TORs for members of TWG and action plans for implementing the project	2) 5S-CQI-TQM 3) Utilization of Medical Equipment	2. Facilities 1) Office space for Japanese experts	
1-1-3 [TWG] Develop TOK's for members of TWG and action plans for implementing the project	4) Maintenance of Medical Equipment		
1-1-5 [TWG] Update and/or create manuals, handbooks, guidelines, and monitoring tools for	5) Project Coordinator/ Training Management	3. Administrative cost and other expense such as training and supervision	
	2. Machinery and equipment	4. Personnel cost for counterparts and other running expenses (daily	
1-1-6 [TWG] Define criteria for national show case and review a national show case(s)	1) Necessary supplies for 5S-CQI-TQM to target hospitals	allowance and transportation expense)	
	and MOUL headswarters		
1-1-8 [TWG] Integrate components of 5S-CQI-TQM, UT, and ME maintenance to the supervision system	MOH headquarters 2) Testing and calibration tools and equipment etc.		
-2 Training and knowledge sharing			
1-2-1 [TWG] Conduct refresher training for national 5S facilitators*	3. Allocation of operational costs for project activities		
1-2-2 [TWG] Conduct training of trainers for 5S-CQI-TQM especially customized for CQI	4. Training in Japan and/or third countries		
1-2-3 [TWG] Organize opportunities to share good practices and lessons learned such as study	5		
tours and QI competition 1-3 Implementation of activities, and monitoring and evaluation, and reflections			
1-3-1 [TWG] Implement an action plan based on PDCA cycle.			
1-3-2 [TWG] Conduct supervision which is integrated into the existing system			
1-3-2 [TWG] Conduct supervision which is integrated into the existing system 1-3-3 [TWG] Hold meetings at least bi-monthly with the project team			
1-3-4 [TWG] Conduct a review meeting on established system in MOH			
1-3-5 [TWG] Make use of review of activity 1-3-4 for institutionalization of the system and methodologies, and reflection to the health sector policy/plan			
1-3-6 [TWG] Conduct an end-line survey			
2-1 System development and implementation			Pre-Conditions
2-1-1 [Phase 1 target hospitals] Revitalize and/or strengthen function of quality improvement			
team (QIT) and work improvement team (WIT)			
2-1-2 [Phase 1 target hospitals] develop action plans of WITs at each phase 1 target hospital			
2-1-3 [Phase 1 target hospitals] Hold periodic meetings of QIT			
2-1-4 [Phase 1 target hospitals] Implement activities aiming at CQI with proper usage and			
maintenance of ME in collaboration with UT and ME maintenance activities			
2-2 Training			
2-2-1 [TWG] Conduct leadership and management training for management staff of targeted hospitals			
2-2-2 [TWG] Conduct refresher training for regional 5S facilitators of targeted hospitals			
2-2-2 [TWG] Conduct 5S CQI training to hospitals with high level practices of 5S-CQI-TQM			
2-2-3 [TWG] Conduct refresher training for regional user trainers			
2-2-2 [Ives] Conduct renearing for regional user trainers 2-2-5 [User trainers] Train staff of their hospitals on how to use ME on the job training basis			
3-1 System development and implementation			
3-1-1 [TWG] Support target hospitals to establish and/or strengthen quality improvement team			
(QIT)			
3-1-2 [TWG] Support target hospitals establish and/or strengthen work improvement team (WIT)			
3-1-3 [TWG] Support target hospitals to hold QIT periodic meetings			
3-1-4 [Phase 2 target hospitals] Implement 5S activities with proper usage and maintenance of			
ME by collaboration with UT and ME maintenance activities 3-2 Training			
3-2 Training 3-2-1 [TWG] Conduct leadership and management training for management staff of target RRHs			
3-2-2 [National 5S facilitators] Conduct training of trainers (TOT) on 5S-CQI-TQM for regional 5S			
facilitators of phase 2 targeted hospitals			
3-2-3 [Regional 5S facilitator] Conduct 5S-CQI-TQM training for staff of phase 2 targeted			
hospitals			
3-2-4 [Regional user trainers trained phase 1 project] Conduct TOT regarding UT for the phase 2 targeted hospitals			
3-2-5 [User trainers] Conduct UT on ME			
3-2-6 [User trainers] Train other staff of RRHs on how to use ME on the job training basis			
4-1 [TWG] Conduct leadership and management training for workshop managers including			
inventory data anaylysis			
4-2 [TWG] Conduct training for Workshop (WSs) staff on ME maintenance			
4-3 [TWG] Conduct training for core staff of the WSs on basics about specialized ME			
4-4 [TWG] Strengthen support system of the CWS for other RWSs			
4-5 [TWG] Support WSs to develop a management system for accumulating knowledge and			
skills			
*Training on 5S for 5S national facilitators and training on COI for COI national facilitators ar	a set and a set of the feat the set of the s	MOULT of the section of the first section of MOULT of the section of for	

*Training on 5S for 5S national facilitators and training on CQI for CQI national facilitators are categorized as activities for the output 1 because the majorities of the national 5S facilitators are MOH staff. Other training for regional 5S trainers and regional user trainers are categorized as activities for the output 2 or 3 because both types of regional trainers are staff of the target hospitals.

2016 07 PM Form3-2-En

Project Monitoring Sheet II (Revision of Plan of Operation)

Version 1 as of 19th December, 2016 Dated 27th December, 2016

Brainet Titler MOU/ IICA Health Strand			Dated 27th December, 2016	16
Project Title: MOR/JICA Realth System Strengthening Project Indite	2016 2017		Monitoring	oring
Expert	Actual I I I I I V I I I I V	Remarks	lssue	Solution
Chief Advisor/QI Management System	Plan			
Assist Chief Advisor/QI Management System	Plan			
ss-cai-tam ①	Plan Actual Actual			
5S-CQI-TQM @	Plan Control C			
Utilazation of Medical Equipment	Actual			
Maintenance of Medical Eqipment Project Coordinator/Training Management	Pan Actual Actual			
Equipment			Drootired two vehicles	
roject administration				
Training in Japan	Vectoral I			
	Plan Actual Actual			
In-country/Third country Training				Since alternative TOT will be
Tanzania KAIZEN TOT			because of flight cancelation/delay.	organized in March 2017, Project Experts will arrange.
Activities Sub-Activities	Plan 2016 2017 Actual I II III IIII IIIII IIIII IIIII IIIIII IIIIIIII IIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Responsible Organization	Achievements	lesite & Countermosettree
1. Supporting/supervising system for health infrastructure management of all the RRHs	is strengthened in the MOH	Japan Uganda		
1-1 Establishment of foundation for the project and implementation			Conducted the kick-off meeting of the project to establish the project	
1-1-1 [MOH] Establish TWG for the phase 2 project	Actual		implementation structure and the Project Steering Committee.	
1-1-2 [MOH] Select focal persons for 5S, user training (UT), and medical equipment (ME) maintenance	0000		Established 3 Implementation Teams. (5S-CQI-TQM, UT and ME maintenance)	
-			Developed Work Plans based on the situation analysis.	
1-1-4 [TWG] Conduct baseline survey	Actual		Conducted situation analysis for all of the targeted hospitals and workshops.	
1-1-5 [TWG] Update and/or create manuals, handbooks, OOO OO OO OO OOO Outlines, and monitoring tools for dissemination	O O O O O O O O O O O O O O O O O O O			Since QAD will develop QI tools within year 2016/2017, project documents should follow their schedule.
1-1-6 [TWG] Define criteria for national show case and review a				Since definition of national show case should follow QI flamework, it is necessary to discuss with OAD
	Actual			in consideration of HFQAP.
1-1-7 [TWG] Review existing supervision system of MOH.	O O Plan Actual			Supervision system should be discussed at 1st Project Steering Committee meeting.
1-1-8 [TWG] Integrate components of 5S-CQI-TQM, UT, and ME	0			Supervision system should be discussed at 1st Project Steering Committee meeting.
1-2 Training and knowledge sharing 1-2-1 [TWG] Conduct refresher training for national SS facilitators* O O	Plan			Refresher training for 5S facilitators
	0			 was postponed because of no budget allocation for training perdiem.
	O O Plan Actual Plan Plan			
1-3 Implementation of activities, and monitoring and evaluation, and refl 1-3-1 [TWG] Implement an action plan based on PDCA cycle.	ections			
1-3-2. [TWG] Conduct supervision which is integrated into the OOO existing system	O D Plant			
1-3-3 [TWG] Hold meetings at least bi-monthly with the project team	0 0		Conducted the kick-off meeting and the project focal persons agreed that the Steering Committee will conduct meetings every three months.	
1-3-4 [TWG] Conduct a review meeting on established system in OOO	Plan Actual			
1-3-5 [TWG] Make use of review of activity 1-3-4 for institutionalization of the system and methodologies, and reflection to the health sector policy/plan	Actual			
1-3-6 [TWG] Conduct an end-line survey				

Project Monitoring Sheet II (Revision of Plan of Operation)

Version 1 as of 19th December, 2016 Dated 27th December, 2016

Inputs 2015 2017 Expert Actual I I I I I I	Monitoring Issue	toring Solution
COLLevel for recourse management and		
a. Imperior account incommentation of the prizes in a green hospitals among a cost reversion resource management and quality improvement is established to function as leading cases based on the outcomes of the phase 1.		
Plan Actual Actual		
Pan		
Actual Partial		
	Conducted the Leadership	
ctual	Improvement Seminar.	
Actual		
Plan		Refresher training for User Trainer was postponed because of no
Actual		budget allocation for training perdiem.
lan		
for resource management and		
lan		
lan ctual		
Actual		
	Conducted the Leadership	
	Improvement Seminar.	
Actual		
Pian Pian Pian Pian Pian Pian Pian Pian		
lan ctual		
angthened.		
Plan	Conducted the 1st Leadership and Management Training for Workshop	
Actual	Managers and Senior Technicians of Reginal Medical Equipment	
	Maintenance workshops.	
lan ctual		
lan ctual		
2016 2017		Colition
	anssi	Solution
	Under discussion of PDM	Project Experts are discussing
	modification.	PDM with JICA HQ.
Actual		
Image: Section of the section of t	Image: Control of the second contrecontrol of the second control of the second control of the	Intersection Intersection Intersection Intersection Inters

Plan Actual Actual

TO CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 2 (Term: 20th December 2016 – 30th April 2017)

Name: Prof. Anthony K. Mbonye <u>Title: Project Director</u> <u>Name: Hiroshi Tasei</u> <u>Title: Chief Advisor</u> <u>Submission Date:1st August 2017</u>

I. Summary

1 Progress and Achievements of the Project

1-1 Progress of Inputs

[The Japanese side]

1-1-1. Dispatch of Project Expert Team

Japanese experts were dispatched on schedule. The list of the dispatched Japanese experts is shown in the table below.

Name	2016		2	017			Total
	12	1	2	3	4	5	(days)
Hiroshi Tasei Chief Advisor/QI Management System 1	3					93	96
Shizu Takahashi Vice Chief Advisor/QI Management System 2			15				15
Naoki Take 5S-CQI-TQM①						34	34
Yujiro Handa 5S-CQI-TQM②			15	14			29
Yasuhiro Hiruma Utilization of Medical Equipment					53		53
Naoki Mimuro Maintenance of Medical Equipment					52		52
Emi Onosaka Project Coordinator/Training Management				60		15	75

1-1-2. KAIZEN Training of Trainers in Tanzania 2017

The Ministry of Health, Community Development, Gender, Elderly and Children of the United Republic of Tanzania with support from the Japan International Cooperation Agency (JICA),

organized a KAIZEN Training of Trainers on 20th–24th March 2017 at the Kilimanjaro Christian Medical Center, Moshi, Kilimanjaro region, Tanzania.

Four (4) participants from Uganda were invited to participate in this training since they had missed the last KAIZEN training in November 2016 because of the flight cancellation.

The purpose of the training was to build participants' capability in terms of skills and knowledge on the KAIZEN Approach for strengthening resource management and improving quality of health care service.

Participants from Uganda were:

- 1) Dr. Obonyo John Hyacinth, Principal Medical Officer, Department of Clinical Services (Clinical Services)
- 2) Mr. Kamugisha Pidson, Nursing Officer, Kabale Regional Referral Hospital (RRH)
- 3) Ms. Nakasala Sarah Akulep Harriet, Principal Orthopedic Officer, Jinja RRH
- 4) Mr. Ndawula Robert Matovu, Senior Orthopedic Officer, Mubende RRH

All participants completed the sessions. Mr. Kamugisha Pidson and Mr. Ndawula Robert submitted their report and the pilot activity plan. The Japanese experts will make follow-ups of these activities since the participants have to report to JICA Uganda Office all details of KAIZEN process and the result of the pilot activity by 30th September 2017.

1-1-3. Printing the project polo-shirts

The Japanese experts designed the project polo-shirts as a means of public relations. They designed three types of polo-shirts following the components of the project activities, which were 5S-CQM-TQM, User Training and Medical Equipment Maintenance. They printed one hundred and eighty (180) pieces in total and these polo-shirts will be delivered in the trainings and meetings.

1-1-4. Holding the 1st Joint Coordination Committee (JCC) meeting

The 1st JCC meeting of the Project on Improvement of Health Services through Health Infrastructure Management II (the Project) was held on 20th December 2016 and was chaired by Director General Health Services (DGHS), Prof. Anthony K. Mbonye, the Project Director.

- JCC members: DGHS and Commissioner Health Services, Clinical Services, Dr. Amandua Jacinto, the Chief Representative of JICA Uganda Office and the Chief Advisor of the Project, attended the meeting.
- One (1) member from Central Workshop (WS), two (2) from Clinical Services, one (1) from Program Office and two (2) from JICA Uganda office attended the meeting.
- The Work Plan of the Project until November 2017 was shared among all members.
- After the implementation of the Project on Improvement of Health Services through Health

Infrastructure Management (phase 1), the condition of medical equipment in health facilities evaluated have improved from analysis of medical equipment inventory data, but there was delayed update of inventory data due to lack of human resource and funding.

 All members discussed funding of the Ministry of Health, Uganda (MOH) for the project activities. The Chairperson confirmed that the funding will be given by MOH from next fiscal year 2017/2018.

[The Uganda side]

1-1-5. Assignment of Counterparts

National 5S-CQI-TQM Facilitators and phase 1 User Trainers and MOH officers conducted the trainings and supervisions with Japanese experts on schedule.

Members of the project implementation structure, i.e. JCC, Steering Committee and Implementation Team, were assigned in the kick-off meeting of the Project in September 2016. The meeting, however, was held slightly behind schedule due to absence of counterparts.

1-1-6. Personnel cost for counterparts and other running expenses (daily allowance and transportation expense)

MOH never allocated the budget of personnel cost for participants for project activities in this fiscal year 2016/2017. MOH issued a request letter to JICA concerning additional funds for the Project for this fiscal year. MOH committed to provide adequate funds for the fiscal year 2017/2018 up to the end of the Project.

1-2 Progress of the Activities

1-2-1. Activities of the Output 1

(1) Awarding Fort Portal WS in 17th Medical Equipment Maintenance Workshop Performance Review Meeting

Related to	Planned in December 2016, May 2017, September 2017, October 2017
activity 1-2-3	and December 2017
Details	 The Workshop Performance Review Meeting was a quarterly meeting to share all the WS's performance among WS Managers and Senior Technicians. The detail of the meeting is shown on 1-2-3 Activities of the Output 4 (1). The Project team awarded Fort Portal WS with a trophy as the best performer based on the situation analysis which had been done in September 2016.
Achievement	 Motivated WS members with award of a trophy before all Hospital
	Directors, Administrators and WS Managers.

	ing of National 53-CQI-TQM Facilitators
Related to	Planned in October 2016
activity 1-2-1	
Details	• The training was conducted on 14th-15th February 2017 at MOH
	Boardroom to improve knowledge and skills of 5S-CQI-TQM
	instruction.
	 Refresher training was postponed because of no budget allocation
	for per diem.
	• The program included concept of 5S and management, and
	teaching demonstration by participants.
Achievement	• Ten (10) facilitators, three (3) from MOH, one (1) from District Health
	Team and six (6) from health facilities, were trained and certified with
	sufficient knowledge and skills to perform as National 5S-CQI-TQM
	Facilitators.

(2) Refresher Training of National 5S-CQI-TQM Facilitators

(3) Development of CQI Guidelines and 5S-CQI-TQM Facilitators Guidebook

Related to	Planned in October-December 2016
activity 1-1-5	
Details	• The Project was on the way to develop CQI Guidelines and 5S-CQI-
	TQM Facilitators Guidebook. Concept notes for these activities were
	developed and shared.
Achievement	• The concept notes were developed and shared. The development
	will proceed based on them.

1-2-2. Activities of the Output 2 and 3

(1) 5S-CQI-TQM

1) 5S Training for Poor-performed Hospitals

· · ·			
Related to	Planned in February 2017 and October 2017		
activity 3-2-2			
Details	• The situation analysis carried out in October 2016 evaluated five (5)		
	RRHs i.e. Fort Portal, Gulu, Mbarara, Naguru and Soroti as poor		
	performers or beginners of 5S practice.		
	• This training was conducted on 9th-10th March 2017 at Mbale RRH		
	and on 14th-15th March 2017 at Entebbe General Hospital (GH) to		
	impart knowledge of 5S including an exercise of situation analysis of		

	the health facilities.	
Achievement	• In total twenty-five (25) staff members, five (5) from each of the five	
	(5) poor-performed hospitals, participated in the training.	
	• Apart from the above hospitals, the training consisted of ten (10)	
	participants from the host hospitals of Entebbe and Mbale; and six	
	(6) from three (3) implementing partners of United Nations High	
	Commissioner for Refugees (UNHCR).	
	• The knowledge of basic 5S and necessary things to do such as	
	formulation of Work Improvement Team (WIT) and how to use 5S	
	tools was greatly understood through this training.	
	• According to the result of pre- and post-test, there was no big	
	difference between the two since most of the participants had	
	already understood the basic concept of "quality" before this	
	training. The contexts of the test should be reconsidered to measure	
	the result of the training more effectively.	

2) Follow-up Visit to the Poor-performed Hospitals

Related to	Planned in January-December 2017			
Activities 3-1-1, 3-				
1-2 and 3-1-3				
Details	• One (1) Japanese expert and two (2) National 5S-CQI-TQM			
	Facilitators visited four (4) hospitals, Mbarara on 4th April 2017, Fort			
	Portal on 6th April 2017, Gulu on 10th April 2017 and Soroti on 11th			
	April 2017, as follow-up of the 5S training mentioned above.			
	Purpose of visit: -			
	> To know the aftermath of 5S-CQI-TQM training in March 2017:			
	What they have done and what they were going to do.			
	To observe "showcase areas" i.e. "starters" of 5S.			
Achievement	The details are shown in attachment II-1.			

3) Support of Quality Improvement Training at Kabale RRH

Related to	Planned in January-December 2017
activities 2-1-1, 2-	
1-2 and 2-1-3	
Details	• The Project team supported the Quality Improvement training
	conducted by Kabale RRH on 8th-10th February 2017. The training

		covered various Quality Improvement topics, and the Japanese				
		expert provided an interactive seminar on 5S-CQI-TQM.				
Achievement	 Fifteen (15) staff members participated in the training. 					
	•	• Some staff members in Kabale were identified as candidates of				
		National 5S-CQI-TQM Facilitators.				

(2) Utilization of Medical Equipment (User Training)

1) Management and Refresher Training for phase 1 User Trainer

Related to	Planned in November 2016		
activity 2-2-4			
Details	 The training was conducted at Masaka RRH on 20th-24th February 2017. The training program covered; basic and advanced medical equipment, teaching skills and management of User Training. The training was conducted by a MOH official, a Japanese expert and four (4) Senior User Trainers. The targets of this training were twenty-six (26) items of basic medical equipment and advanced electronic medical equipment shown in the Table 1 (refer to Attachment III). Contents of this training were: planning, implementation, reporting of User Training activities and handling of activity funds. The Japanese expert explained the importance of User Training activities with the inventory data on average of equipment status B for the following years: 2008, 2012, 2014 and 2016 from WS in the Fig.1 (refer to Attachment III). The budget items in the WS were mentioned as well as the budget allocated for the User Training activities. 		
Achievement	 Fourteen (14) out of the sixteen (16) trainers trained by phase 1 participated in the training. Two (2) were absent due to home circumstances and work. The results of test were fifty-four (54) points for pre-test, sixty-three (63) points for post-test on average (100% for full score). The average improved by nearly ten (10) points compared with the pretest, hence the positive outcome of the training was confirmed. Created awareness of User Trainers on budget items and allocation of funds for User Training activities. Created awareness of importance of User trainers' activities as well 		

	as WSs' activities using the inventory data for status B equipment in					
	the Fig.	1 (refer to Att	tachment III).			
•	User	Trainers	understood	the	importance	of
	collaboration/integrating with WSs.					

2) Training of Trainer for the Project User Trainer 1

Related to	Planned in February 2017	
activity 3-2-4		
Details	• The training of trainers was conducted at Mubende RRH on 6th-	
	10th March 2017. The content of the training was usage of ten (10)	
	basic medical equipment, teaching and management skills of User	
	Training. The training was conducted by a MOH Official, one (1)	
	Japanese expert and four (4) phase 1 User Trainers.	
Achievement	• All fourteen (14) trainer candidates elected from the seven (7) target	
	hospitals participated in the training.	
	• A lecture on 5S-CQI-TQM included interactive lectures for 5S	
	beginners, deepening their understanding of 5S-CQI-TQM and	
	learned how to carry out User Training.	
	• The results of test were twenty-six (26) points for pre-test, fifty-six	
	(56) points for post-test on average (100% for full score). Therefore,	
	the increase in knowledge and understanding from the training was	
	confirmed.	

1-2-3. Activities of the Output 4

(1) 17th WS Performance Review Meeting

Related to	Planned in January-December 2017
activity 4-5	
Details	• The meeting was held continuously from the period of phase 1 up
	to date, and the name was changed from "Workshop Managers
	Meeting" to "Workshops Performance Review Meeting". This
	meeting was held on 20th-21st February 2017 at Jinja, which was
	the first dynamic meeting that invited RRHs' Directors,
	Administrators, MOH Officials, major development partners, i.e.
	Strengthening Uganda's Systems for Treatment AIDS Nationally
	(SUSTAIN), Infectious Disease Institute (IDI), American
	International Health Association (AIHA) and JICA, and all the WS

	Managers to dialogue the key issues and counter-measures of the
	WSs.
Achievement	• There was no direct relation with output/outcome indicators.
	However, this meeting was associated with many of the project
	activities and contributed to strengthening the WS capacities, which
	was the same objective as Project Design Matrix (PDM) Output 4.
	• Through the presentation of Health Infrastructure Division, MOH
	(HID) by Eng. Mulepo, it was confirmed that the MOH medical
	equipment management strategy coincides with the project
	activities.
	• In the summary presentation of the 2nd Quarter Reports by the WS
	Managers, the presentation skills had greatly improved compared to
	phase 1 period. It had been an oral presentation only in the phase
	1 period, but now all the managers were using PowerPoint slides
	indicating improvement of computer literacy.
	• One advantage was that the major development partners gathered
	sometimes and shared their activities. Some partners had more
	flexible budget disbursement and activities than JICA project. From
	further activities, the partners and counterparts will strive for
	stronger collaboration between partners, such as joint
	implementation of training, meetings and supervisions.

(2) Maintenance Training on Basic Medical Equipment

<u>,</u>			
Related to	Planned in February 2017		
activity 4-2			
Details	 Training was conducted for four (4) days at Hoima RRH on 14th- 17th March 2017 and twenty-one (21) technicians from WSs and GHs and three (3) JICA volunteers participated. Three (3) experienced Senior Technicians from WSs, two (2) User Trainers from Hoima RRH and one (1) external Biomedical Engineer participated as facilitators. The method of this training was lecture and hands-on practice. The target items in this training were: 1) Microscope, 2) Infant Incubator, 3) Infant Warmer, 4) Operating Table and 5) Electrical Safety Analyzer. 		
Achievement	• According to the test results, the average score was forty-six (46)		

points on the pre-test and seventy-seven (77) points on the post-
test registering great improvement. Particularly, the score of Infant
warmer, Infant Incubator and Microscope was remarkably increased
from pre-test to post-test.
• The level of knowledge such as application, principles, basic
operation and preventive maintenance matters was greatly
improved through this training.
• In the practical session, the participants were divided into small
groups to learn about trouble identification, spare parts replacement
and basic repairs with hands-on.
• From the above, it was confirmed that knowledge and maintenance
skills on target equipment were improved.

(3) Support Supervisions

Related to	Planned in February-March 2017 and September-October 2017			
activity 4-4				
Details	• MOH counterparts and a Japanese expert carried out the support supervision visits. They were conducted on 23rd March 2017 at			
	Mubende RRH and on 24th March 2017 at Hoima WS/RRH and HCIII (Buseruka & Kabale).			
	• Originally, a two weeks' support supervision was scheduled, but the program had been significantly shortened due to two reasons; 1) MOH counterparts were too busy, 2) The schedule was overlapped with other training program that every WS Manager had to attend. Therefore, 2 WSs which had high necessity of support were visited.			
Achievement	• The specific problems/challenges and counter measure actions for each hospital were clarified as shown in Attachment II-2.			

(4) Analysis of Medical Equipment Inventory

<u>· · · · · · · · · · · · · · · · · · · </u>	•••			
Related to	Planned in January–December 2017			
activity 4-5				
Details	• The medical equipment inventories from all RRHs were analyzed in			
	February to April 2017. The results of inventory data based on			
	equipment status A-F was shown in Table 2 (refer to Attachment III).			
	[Definition of Equipment Status A, B, C, D, E and F]			
	A: Good and in use D: In use but needs replacement			

1-3. Achievement of Output

1-3-1 Output 1

• The Japanese experts were considering the indicators, baseline figures and means of verification for Output 1 with the PDM modification.

Current Indicators	Achievement	
1-1		
PDCA cycle of supporting and	PDCA cycle of supporting and	
supervising RRHs is completed once a	supervising RRHs was not conducted.	
year or more.		
1-2		
The number of supervision conducted	Steering committee didn't conduct any	
by steering committee becomes more	supervision.	
than XX times.		
1-3		
Number of training organized by	Refresher Training of National 5S-CQI-	
Technical Working Group (TWG)	TQM Facilitators was conducted.	
becomes more than XX times.		
1-4		
Number of certified national CQI	Ten (10) facilitators, three (3) from MOH,	
facilitators from MOH becomes more	one (1) from District Health Team and	
than XX.	six (6) from health facilities, were	
	trained.	

(Other achievement)

- Motivated WS members with award of a trophy before all Hospital Directors, Administrators and WS Managers.
- The concept notes for CQI Guidelines and 5S-CQI-TQM Facilitators Guidebook were developed and shared. The development of Guidelines and Guidebook will proceed based on them.

1-3-2 Output 2 and Output 3

• The Japanese experts were considering the indicators, baseline figures and means of verification for Output 2 and Output 3 with the PDM modification.

•	Output 2		
	Current Indicators	Achievement	
	2-1		
	Number of the phase 1 target hospitals	The Project team didn't identify the CQI	

which started CQI activities becomes	activities in target hospitals.
more than XX.	
2-2	
Number of the phase 1 target hospitals	The Project team didn't identify the CQI
which completed CQI process at least	process at any units in target hospitals.
with one unit becomes more than XX.	
2-3	
Number of UT conducted by regional	User Training activities were conducted
trainers is more than XX times.	but not regularly.
2-4	
Number of functioning WITs in target	The Project team didn't identify the
hospitals reaches the level of 10 under	functioning WIT that reached the level
the 5S-CQI-TQM implementation	ten (10).
becomes more than XX.	

• Output 3

Current Indicators	Achievement	
3-1		
All the phase 2 target hospitals	The Project team didn't identify the CQI	
implement Quality Improvement Team	activities in target hospitals.	
(QIT) activities including 5S-CQI-TQM.		
3-2		
Average of comprehension rate of	The results of test for the Project User	
trainees after User Training becomes	Trainers were twenty-six (26) points for	
higher than XX%.	pre-test, fifty-six (56) points for post-test	
	on average (100% for full score).	
3-3		
More than 1 reginal 5S facilitators at	In total twenty-five (25) staff members,	
each phase 2 target hospitals are	five (5) staff members from each of the	
trained.	five (5) hospitals; Fort Portal, Gulu,	
	Mbarara, Naguru and Soroti,	
	participated were trained.	
3-4		
More than 2 regional user trainers at	Fourteen (14) trainees from the Project	
each phase 2 target hospital are	tal are target hospitals were trained.	
trained.		

(Other achievement)

- Sufficient knowledge and skills were acquired to perform as User Trainers and National 5S-CQI-TQM Facilitators who will conduct Support Supervisions to health facilities through refresher training.
- After the KAIZEN Training of Trainers in Tanzania 2017, one of the participants conducted Quality Improvement training in Kabale RRH.

1-3-3 Output 4

- According to the medical equipment inventory data, Japanese experts were considering setting the baseline figures as below.
- Since the current percentages of status E were small, large percentages of decrement could not be expected. It was recommended to review whether they were suitable as indicators of Output 4-2.

Current Indicators	Achievement
4-1	Increased 31%
Trained staff of all the workshops improve	46% → 77%
their knowledge by XX % after ME	
maintenance training.	
4-2	4.2% (average)
Percentages of ME in status E lowered by	Use for baseline
XX%.	

(Other achievement)

• The specific problems, challenges and counter-measure actions for Mubende WS and Hoima WS were clarified through the support supervision visits.

1-4 Achievement of the Project Purpose

• The Japanese experts were considering the indicators, baseline figures and Means of Verification for Project purpose with the PDM modification.

Current Indicators	Achievement	
Score sheet of 5S-CQI-TQM on target	5S-CQI-TQM Assessment was not	
hospitals become more than XX%.	conducted.	
The number of CQI practices becomes	es The Project team didn't identify the CC	
more than XX (number).	activities in target hospitals.	
Supervisions on 5S, UT and ME which is	s 5S supervision to show case unit of four	
integrated into the system of MOH in a	(4) hospitals by two (2) National 5S-	

consolidated way was implemented more	CQI-TQM Facilitators was conducted.		
than XX times.	The objective of support supervision		
	will be to strengthen the QIT in each		
	facility. CQI activities such as User		
	Training and Medical Equipment		
	Maintenance will be included during		
	supervision of the target hospitals.		
Percentages of status A of ME becomes	65.1% (average)		
higher than XX%.			

• Setting baseline data of medical equipment inventory as quantitative indicators through analysis of medical equipment Inventory.

1-5 Changes of Risks and Actions for Mitigation

(1) Necessary funds for project activities

Two (2) activities i.e. User Trainer Refresher training and Refresher training for National 5S-CQI-TQM Facilitators were postponed due to lack of allowances for trainees. MOH had issued a request letter to JICA concerning additional funds for the Project for the fiscal year 2016/2017 and JICA approved provision of necessary funds for the activities.

(2) Difficulty of Implementation Team on Medical Equipment Maintenance

The Implementation Team on Medical Equipment Maintenance consisted of a total of four (4) people, including two (2) engineers of HID, one (1) Central WS Manager and one (1) Japanese expert. However, it was difficult to hold regular meetings and smooth communication in this period because of excessive workload of Medical Equipment Maintenance counterparts such as budget planning, several other meetings, coordination of partners' project, tender evaluation etc. In addition, the Central WS Manager retired and the new Manager had not been appointed since January 2017. It will be necessary to review the Medical Equipment Maintenance Implementation Team structure.

1-6 Progress of Actions undertaken by JICA

(1) Necessary funds for project activities

JICA approved additional funds for the project activities until the end of fiscal year 2016/2017.

1-7 Progress of Actions undertaken by Government of Uganda

(1) Necessary funds for project activities

MOH issued a letter concerning the request of additional funds for the project activities for the

fiscal year 2016/2017 to JICA since its budget had already been allocated and could not accommodate the necessary funds (staff allowance, etc.) for the activities. MOH committed to provide adequate funds for the fiscal year 2017/2018 up to the end of the Project.

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

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

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.)

- (1) The preparatory survey for the grant aid project by the Japanese government for improvement of northern Uganda hospitals (Arua, Gulu and Lira RRH) started in November 2016. The target facilities of the grant aid project were part of the Project sites. The project component will be construction of hospital facility and procurement of medical equipment. It is expected to have a positive influence for health service delivery in the hospitals and motivation of hospital staff to improve the workplace environment. The second survey of the project was conducted in March 2017.
- (2) SUSTAIN, supported by USAID, supports MOH to strengthen comprehensive HIV/AIDS care, prevention, laboratory and tuberculosis services at selected RRHs and one (1) Health Center. SUSTAIN's Quality Improvement work were being done in collaboration with Quality Assurance Department (QAD) of MOH and Applying Science to Strengthen and Improvement System (ASSIST). The National 5S-CQI-TQM Facilitators who were trained through phase 1 were being utilized as Quality Improvement trainers of the SUSTAIN and ASSIST projects. SUSTAIN supports CQI activities in 14 Hospitals including RRHs.
- (3) ASSIST, supported by USAID, was providing direct support for improving HIV and family health services to sites in northern Uganda. It was also supporting the institutionalization of Quality Improvement into the health sector through providing direct technical support to the QAD in overseeing and coordinating Quality Improvement activities. It was expected to cowork in support supervision in target facilities of the Project.
- (4) The Institutional Capacity Building Project in Planning Leadership and Management in the Uganda Health Sector Phase2 (ICB2 project) supported by Belgian Technical Cooperation was to strengthen the planning, leadership and management capacities of public health staff, specifically at the decentralized local government level. The target of the ICB2 project was West Nile and Rwenzori including RRH. The ICB2 project was also supporting the rolling out of User Training activities in West Nile and Rwenzori.

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

2-1 Details, causes:

- (1) Finalizing of modification for PDM v.0 was not completed due to delay of confirmation of modified items between MOH, JICA and the Japanese experts.
- (2) Steering Committee meetings were not conducted regularly due to difficulty of arrangement of three Implementing teams.
- (3) Updating of manuals, handbooks and monitoring tools was not completed. QAD planned to update materials in 3rd quarter of 2016/2017 or later so that updating of project material will be followed.

2-2 Action to be taken, roles of responsible persons/organization

- (1) Contents of modification for PDM v.0 were mutually agreed upon between MOH and Japanese experts, and the 2nd JCC meeting will be held to approve the PDM v.1 early June 2017.
- (2) Steering Committee meeting will be held early June 2017 while all Japanese experts will be implementing project activities.
- (3) Updating of Quality Improvement materials will start from the 3rd quarter of 2016/2017 or later.

3 Modification of the Project Implementation Plan

3-1 Revision of the Project Design Matrix (PDM) and Plan of operation (PO)

The Project team will discuss the modification of PDM v.0 according to the results of situation analysis. The proposal of the modification items in PDM v.0 will be discussed in the 2nd JCC meeting early in June 2017.

II. Project Monitoring Sheet I & II as Attached

Attachment:

- I. Project Monitoring Sheet I & II
- II. Results for the Follow-up Visit to the Poor-performed Hospitals (Mbarara RRH, Fort Portal RRH, Gulu RRH and Soroti RRH) and the specific problems/challenges and countermeasure actions in Mubende WS and Hoima WS
- III. Tables and Figures

Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: Project on Improvement of Health Service through Health Infrastructure Management (II)

Implementing agency: Department of Quality Assurance, Ministry of Health (MOH) (5S-CQI-TQM)

Narrative Summary

Integrated Curative Services Division, Department of Clinical Services, MOH (Utilization of Medical Equipment)

Health Infrastructure Division, Department of Clinical Services, MOH (Maintenance of Medical Equipment)

Target Group: (1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe General Hospital (GH), Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, Moroto RRH, Mukuju HC IV, Tororo GH (2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital Period of Project: July 2016- July 2020

Objectively Verifiable Indicators

Project Site: Republic of Uganda

	Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	
Burge weaks are used in the tilts in tigsers are upper layer in the tilts in tin tigsers are upper layer in the tilts in tigsers are upper laye	Overall Goal				
Application Manuality exploration (and a particulated sign and tables) (and tabbles) (and tabbles) (and tables) (and tabbles) (and tables) (and		Clients' satisfaction level is improved to the target level. (XX)	Health Management Information System (HMIS)		
Image: A properties of the SPA is the set of the SPA is the			Annual Health Sector Performance Report (AHSPR)		
Instrume Instrume description Instrum description Instrume description </td <td>Quality of health care services at all the RRHs in Uganda is improved.</td> <td></td> <td>Periodical monitoring reports by QITs at target hospitals</td> <td></td> <td></td>	Quality of health care services at all the RRHs in Uganda is improved.		Periodical monitoring reports by QITs at target hospitals		
Package Package Control of gass in status control Control of gass in status control of gass in status control Control of gass in status control			Supervision reports made by the steering committee for the project		
Expect Pupped Since set of SS CUI TUM on trapplets heights become ranks and XXB. Hande of status growthile medages			•Baseline and end-line data		
Solution Solution Solution Market of Solution M			·Quarterly regional workshop maintenance report		
The matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of COUP predices becomes more large XX. space of atomic predices in the matched of anomal predices in the matched of the match	Project Purpose		Minutes of steering committee meetings		•The Project team •5S supervision to Facilitators was con
NOT: -Separation on SU, UT, and UE, which is insignable and using using product and using us			Reports of steering committee		Maintenance will be
CiteLine Image: CiteLine </td <td></td> <td>the system of MOH in a consolidated way are implemented</td> <td>Reports from 5S trainers</td> <td> Political situation in Uganda remans stable. </td> <td></td>		the system of MOH in a consolidated way are implemented	Reports from 5S trainers	 Political situation in Uganda remans stable. 	
I. Supporting system (or basil) infrastructure management of all the RPs is itempletered in the ADD item and periodic reports made by steering committee item and periodic reports item and periodic re		Percentages of status A of ME becomes higher than XX%	 Score sheets of 5S-GQI-TQM at targeted hospitals. 		
-Percent and percent control	Output				
1 Supporting interacting system for health infrastructure management will be include in the NOH. -Prober yeaker in contracted by steering committee -Prober yeaker in contracted by steering			Plans and periodic reports made by steering committee		Steering committee Refresher Training Ten (10) facilitator
Implementation mechanism of the phase 1 targeted hospitals witch address from MOH - Test results and certification issued for CQ1 trainers at MOH 2. Implementation mechanism of the phase 1 targeted hospitals witch address from MOH - Test results and certification issued for CQ1 trainers at MOH 2. Implementation mechanism of the phase 1 targeted hospitals witch address from MOH - Address recent and trainers 2. Implementation mechanism of the phase 1 targeted hospitals witch completed at targeted hospitals mechanis and target metals at targeted hospitals and target metals			 Activity records made by steering committee of MOH 	, , , , , , , , , , , , , , , , , , ,	from health facilitie:
Image: management and guality improvement is strated to be phase 1 targeted hospitals implementation mechanism of the phase 1 targeted hospitals implementation mechanism of the phase 1 targeted hospitals implement QI produced by user trainers			Records and results of supervision conducted by steering committee		
2.1 Number of the phase 1 targeted hospitals with completed			•Test results and certification issued for CQI trainers at MOH		
2.2 Number of the phase 1 targeted hospitals wind at COI level for resources interaction mechanism of the phase 1 targeted hospitals with one unit becomes more than XX. -Activity records of WITs -Training records on UT conducted by user trainers 2.3 Number of the phase 1 targeted hospitals with one unit becomes more than XX. -Score sheets of SS-COI-TQM -Score sheets of SS-COI-TQM 2.4 Number of functioning WITs in target hospitals reactes the level of 10 under the SS-COI-TQM implementation becomes more than XX. -Number of UT conducted by user trainers -Score sheets of SS-COI-TQM -The Project team 2.4 Number of functioning WITs in target hospitals mechanism of the phase 2 targeted hospitals informed to the sS-COI-TQM implementation becomes more than XX. -Number of UT conducted by user trainers -Number of UT conducted by user trainers 3.5 number of functioning WITs in target hospitals reactes the level of 10 under the SS-COI-TQM implementation becomes more than XX. -Number of UT and their activity records -Number of UT and their activity records on UT raining records on TOT for UT -Number of UT and their activity records on UT raining records on TOT for UT -Training records on IOT for UT -Training records on			Activity records of QITs		The Project team User Training activity
2. Implementation mechanism of the phase 1 targeted hospitals aimed at COI level for resource management and quality improvement is established to function as leading cases based on the NC funce. COI posses at least with one init becomes more than XC. Training records on UT conducted by user trainers Score sheets of SS-COI-TOM Score sheets of SS-COI-TOM 2. Number of UT conducted by regional trainers is more than XC. - Training records on UT conducted by user trainers - Project report about COI activities - Project report about COI activities - Project report about COI activities 2. Number of UT conducted bogsitals implementation becomes - Training records on UT conducted by user trainers - Project report about COI activities - Project report about COI activities <td></td> <td>2-2 Number of the phase 1 targeted hospitals which completed</td> <td>Activity records of WITs</td> <td></td> <td></td>		2-2 Number of the phase 1 targeted hospitals which completed	Activity records of WITs		
outcomes of the phase 1. 2.4 Number of UT conducted by regional trainers is more than Xt times. -Score sheets of SS-CQI-TQM -Score sheets of SS-CQI-TQM 2.4 Number of functioning WTs is target hospitals reaches the level of 10 under the SS-QQ-TQM implementation becomes more than XC. -Project report about CQI activities -Project report about CQI activities .Supervision reports made by TWG -Supervision reports made by TWG -Number of QITs and their activity records -The Project team - The results of team inducting SS-CQI-TQM 3.Foundation for implementation mechanism of the phase 2 targeted hospitals for resource 3-3 Nore than 1 regional S facilitators at each phase 2 targeted hospital so remove their knowledge by regional training activity records on TOT for UT -Results of pre and post tests for training records on TOT for UT 4. ME maintenance and management capachy of workshops (WS) are strengthened. 4-1 Trained staff of all the workshops improve their knowledge by XX%. -Results of pre and post tests for trainees of ME maintenance 4. ME maintenance and management capachy of workshops (WS) are strengthened. 4-2 Percentages of ME in status E lowered by XX%. -Training records related to ME maintenance -Training records related of ME maintenance	2. Implementation mechanism of the phase 1 targeted hospitals aimed at CQI level for resource		•Training records on UT conducted by user trainers		
Image: severe of 10 under the SS-CQI-TQM implementation becomes more than XX. -Project report about CQI activities - Supervision reports made by TWG -The Project report about CQI activities - Supervision reports made by TWG 3.4 All the phase 2 targeted hospitals implement QIT activities including SS-CQI-TQM. -Number of QITs and their activity records -The Project report about CQI activities - Supervision reports made by TWG -The Project report about CQI activities - Supervision reports made by TWG -The Project report about CQI activities - Supervision reports made by TWG -The Project report about CQI activities - Supervision reports made by TWG -The Project report about CQI activities - Supervision reports made by TWG -The Project report about CQI activities - Supervision reports made by TWG -The Project report about CQI activities - Supervision report made by TWG -The Project report about CQI activities - Supervision report made by TWG -Supervision report made by TWG -Sup			Score sheets of 5S-CQI-TQM		
3-1 All the phase 2 targeted hospitals implement QIT activities including 5S-CQI-TQM. - The Project team including 5S-CQI-TQM. 3. Foundation for implementation mechanism of the phase 2 targeted hospitals for resource management and quality improvement is introduced and established. - Supervision report made by TWG 3. A More than 1 regional 5S facilitators at each phase 2 targeted hospitals are trained. - Supervision report made by TWG - Supervision report made by TWG - Supervision report made by TWG - Training records on TOT for UT - Training records related to ME maintenance 4. ME maintenance and management capacity of workshops (WS) are strengthened. - 4.2 Percentages of ME in status E lowered by XX%. - Training records related to ME maintenance		level of 10 under the 5S-CQI-TQM implementation becomes	Project report about CQI activities		
3. Foundation for implementation mechanism of the phase 2 targeted hospitals for resource management and quality improvement is introduced and established. 3. A fore than 1 regional SS facilitators at each phase 2 targeted hospitals are trained. 3. A more than 1 regional SS facilitators at each phase 2 targeted hospitals are trained. 3. A more than 1 regional SS facilitators at each phase 2 targeted hospitals are trained. 3. A more than 1 regional SS facilitators at each phase 2 targeted hospitals are trained. 3.4 More than 2 regional user trainers at each phase 2 targeted hospitals are trained. 3.4 More than 2 regional user trainers at each phase 2 targeted hospitals are trained. 4.1 Training secords on TOT for UT *Number of UT senite on UT senite on UT senite on UT senite hospitals are trained. *Training records related to ME maintenance *Training records related to ME maintenance *Training records related to ME maintenance 4. ME maintenance and management capacity of workshops (WS) are strengthened. 4.2 Percentages of ME in status E lowered by XX%. *Results of pre and post tests for trainees of ME maintenance *Training records related to ME maintenance *Training records related to ME maintenance			Supervision reports made by TWG		
3-2 Average of comprehension rate of trainees after user training becomes higher than XX%. •Monitoring and meeting minutes of QITs related to 5S-CQI-TQM •hospitals; For Port •Fourteen (14) traines after user training becomes higher than XX%. 3. Foundation for implementation mechanism of the phase 2 targeted hospitals for resource management and quality improvement is introduced and established. 3-3 More than 1 regional 5S facilitators at each phase 2 targeted hospitals are trained. •Supervision report made by TWG •Supervision report made by TWG 3-4 More than 2 regional user trained. 3-4 More than 2 regional user trainers at each phase 2 targeted hospitals are trained. •Results of pre and post tests for trainees of UT Training records on TOT for UT •Training records on TOT for UT 4. ME maintenance and management capacity of workshops (WS) are strengthened. 4-1 Trained staff of all the workshops improve their knowledge by XX%. •Results of pre and post tests for trainees of ME maintenance •Training records related to ME maintenance •Trained staff of all term training. 4. ME maintenance and management capacity of workshops (WS) are strengthened. 4-1 Trained staff of all the workshops improve their knowledge by XX%. •Results of pre and post tests for trainees of ME maintenance •Preventages of ME in status E lowered by XX%. •Results of pre and post tests for trainees of ME maintenance •Preventages of ME in status E lowered by XX%.			Number of QITs and their activity records		The results of test fifty-six (56) points
management and quality improvement is introduced and established. 3-3 More than 1 regional SS facilitators at each phase 2 targeted hospitals are trained. -Supervision report made by TWG 3-4 More than 2 regional user trainers at each phase 2 targeted hospitals are trained. -Results of pre and post tests for trainees of UT Training records on TOT for SS-CQI-TQM -Results of pre and post tests for trainees of UT Training records on TOT for UT 4. ME maintenance and management capacity of workshops (WS) are strengthened. 4-2 Percentages of ME in status E lowered by XX%. -Training records related to ME maintenance -Results of pre and post tests for trainees of ME maintenance -Training records related to ME maintenance			Monitoring and meeting minutes of QITs related to 5S-CQI-TQM		 Hospitals; Fort Port Fourteen (14) train
hospitals are trained. TOT for 5S-CQI-TQM Tot for UT • Training records on TOT for UT • Training records on TOT for UT • Training records related to ME maintenance 4. ME maintenance and management capacity of workshops (WS) are strengthened. 4-1 Percentages of ME in status E lowered by XX%. • Training records related to ME maintenance			Supervision report made by TWG		
4. ME maintenance and management capacity of workshops (WS) are strengthened. 4-1 Trained staff of all the workshops improve their knowledge by XX%. • Training records related to ME maintenance • Training records related to ME maintenance • Training records related to ME maintenance 4. ME maintenance and management capacity of workshops (WS) are strengthened. • 4-2 Percentages of ME in status E lowered by XX%. • Results of pre and post tests for trainees of ME maintenance • Percentages of me instatus E lowered by XX%.					
4. ME maintenance and management capacity of workshops (WS) are strengthened. 4-1 Trained staff of all the workshops improve their knowledge by XX%. • Training records related to ME maintenance • Training records related to ME maintenance • Training records related to ME maintenance 4. ME maintenance and management capacity of workshops (WS) are strengthened. • 4-2 Percentages of ME in status E lowered by XX%. • Results of pre and post tests for trainees of ME maintenance • Percentages of me instatus E lowered by XX%.			Training records on TOT for UT		
4. ME maintenance and management capacity of workshops (WS) are strengthened. 4-2 Percentages of ME in status E lowered by XX%. +Results of pre and post tests for trainees of ME maintenance			Training records related to ME maintenance		Equipment Mainter
Inventory lists of each workshop	4. ME maintenance and management capacity of workshops (WS) are strengthened.		•Results of pre and post tests for trainees of ME maintenance		Percentages of m
			Inventory lists of each workshop		

Version 2 (20th December 2016 – 30th April 2017)

	Demonstra
Achievement	Remarks
sessment was not conducted. m didn't identify the CQI activities in target hospitals. o show case unit of four (4) hospitals by two (2) National 5S-CQI-TQM conducted. The objective of support supervision will be to strengthen the ty. CQI activities such as User Training and Medical Equipment be included during supervision of the target hospitals. status A of ME becomes 65.1% (average).	
atatus A or ME becomes 03. 176 (average).	
supporting and supervising RRHs was not conducted.	
tee didn't conduct any supervision. ng of National 5S-CQI-TQM Facilitators was conducted. .ors, three (3) from MOH, one (1) from District Health Team and six (6)	
ies, were trained.	
n didn't identify the CQI activities in target hospitals.	
n didn't identify the CQI process at any units in target hospitals. ctivities were conducted but not regularly. WIT that reached the level ten (10) were not identified.	
n didn't identify the CQI activities in target hospitals. st for the Project User Trainers were twenty-six (26) points for pre-test, s for post-test on average (100% for full score).	
ve (25) staff members, five (5) staff members from each of the five (5) ortal, Gulu, Mbarara, Naguru and Soroti, participated were trained. ainees from the Project target hospitals were trained.	
all the workshops improve their knowledge by 31% after Medical enance training.	
medical equipment in status E is 4.2%.	

Activities		Inputs	
1-1 Establishment of foundation for the project and implementation	The Japanese Side	The Uganda Side	Important Assumption
1-1-1 [MOH] Establish TWG for the phase 2 project	1. Dispatch of Experts	1. Assignment of Counterparts	
1-1-2 [MOH] Select focal persons for 5S, user training (UT), and medical equipment (ME)	1) Chief advisor / QI Management System 2) 5S-CQI-TQM	2. Facilities	
maintenance	3) Utilization of Medical Equipment	1) Office space for Japanese experts	
1-1-3 [TWG] Develop TORs for members of TWG and action plans for implementing the project	4) Maintenance of Medical Equipment		
1-1-4 [TWG] Conduct baseline survey	5) Project Coordinator/ Training Management	3. Administrative cost and other expense such as training and supervision	
1-1-5 [TWG] Update and/or create manuals, handbooks, guidelines, and monitoring tools for	2. Machinery and equipment	4. Personnel cost for counterparts and other running expenses (daily	
dissemination 1-1-6 [TWG] Define criteria for national show case and review a national show case(s)	 Necessary supplies for 5S-CQI-TQM to target hospitals and MOH headquarters 	allowance and transportation expense)	
1-1-7 [TWG] Review existing supervision system of MOH.	2) Testing and calibration tools and equipment etc.		
1-1-8 [TWG] Integrate components of 5S-CQI-TQM, UT, and ME maintenance to the supervision			
system	3. Allocation of operational costs for project activities		
1-2 Training and knowledge sharing	4. Training in Japan and/or third countries		
1-2-1 [TWG] Conduct refresher training for national 5S facilitators*			
1-2-2 [TWG] Conduct training of trainers for 5S-CQI-TQM especially customized for CQI			
1-2-3 [TWG] Organize opportunities to share good practices and lessons learned such as study tours and QI competition			
1-3 Implementation of activities, and monitoring and evaluation, and reflections			
1-3-1 [TWG] Implement an action plan based on PDCA cycle.			
1-3-2 [TWG] Conduct supervision which is integrated into the existing system			
1-3-3 [TWG] Hold meetings at least bi-monthly with the project team			
1-3-4 [TWG] Conduct a review meeting on established system in MOH			
1-3-5 [TWG] Make use of review of activity 1-3-4 for institutionalization of the system and			
methodologies, and reflection to the health sector policy/plan			
1-3-6 [TWG] Conduct an end-line survey			
2-1 System development and implementation			Pre-Conditions
2-1-1 [Phase 1 target hospitals] Revitalize and/or strengthen function of quality improvement team (QIT) and work improvement team (WIT)			
2-1-2 [Phase 1 target hospitals] develop action plans of WITs at each phase 1 target hospital			
2-1-3 [Phase 1 target hospitals] Hold periodic meetings of QIT			
2-1-4 [Phase 1 target hospitals] Implement activities aiming at CQI with proper usage and maintenance of ME in collaboration with UT and ME maintenance activities			
2-2 Training			<li< td=""></li<>
2-2-1 [TWG] Conduct leadership and management training for management staff of targeted hospitals			 Modification of PDM v.0, related indicators and means of verification
2-2-2 [TWG] Conduct refresher training for regional 5S facilitators of targeted hospitals			→PDM v.1 shall be approved in the 2nd JCC.
2-2-2 [TWG] Conduct 5S CQI training to hospitals with high level practices of 5S-CQI-TQM			Necessary funds for project activities
2-2-4 [TWG] Conduct refresher training for regional user trainers			→JICA approved necessary funds for the fiscal year
2-2-5 [User trainers] Train staff of their hospitals on how to use ME on the job training basis			2016/2017.
3-1 System development and implementation			MOH committed to provide funds for the fiscal year 2017/2018 up to the end of the project.
3-1-1 [TWG] Support target hospitals to establish and/or strengthen quality improvement team			
(QIT)			→Two activities i.e. Use Trainer Refresher training and Refresher training for National 5S-CQI-TQM Facilitators
3-1-2 [TWG] Support target hospitals establish and/or strengthen work improvement team (WIT)			that had been postponed last year were conducted.
3-1-3 [TWG] Support target hospitals to hold QIT periodic meetings			Conducting Steering Committee meeting
3-1-4 [Phase 2 target hospitals] Implement 5S activities with proper usage and maintenance of			→Chair person of Steering Committee will organaize the Steering Comimittee meeting after the 2nd JCC.
ME by collaboration with UT and ME maintenance activities 3-2 Training			Steering Communities meeting alter the 2nd JCC.
3-2-1 [TWG] Conduct leadership and management training for management staff of target RRHs			•Lack of participation of counterpart to the project activities —To organize regular meeting with Project Implementation
3-2-2 [National 5S facilitators] Conduct training of trainers (TOT) on 5S-CQI-TQM for regional 5S facilitators of phase 2 targeted hospitals			Team. •Updating of QI materials by QAD was not completed on
3-2-3 [Regional 5S facilitator] Conduct 5S-CQI-TQM training for staff of phase 2 targeted hospitals			→Updating of the materials will start from 3rd quarter of
3-2-4 [Regional user trainers trained phase 1 project] Conduct TOT regarding UT for the phase 2 targeted hospitals			fiscal year 2016/2017 or later so that updating of project material will be followed the schedule.
3-2-5 [User trainers] Conduct UT on ME			
3-2-6 [User trainers] Train other staff of RRHs on how to use ME on the job training basis 4-1 [TWG] Conduct leadership and management training for workshop managers including			
inventory data analysis			
4-2 [TWG] Conduct training for Workshop (WSs) staff on ME maintenance			
4-3 [TWG] Conduct training for core staff of the WSs on basics about specialized ME			
4-4 [TWG] Strengthen support system of the CWS for other RWSs			
4-5 [TWG] Support WSs to develop a management system for accumulating knowledge and skills			
	1	1	

*Training on 5S for 5S national facilitators and training on CQI for CQI national facilitators are categorized as activities for the output 1 because the majorities of the national 5S facilitators are MOH staff. Other training for regional 5S trainers and regional user trainers are categorized as activities for the target hospitals.

2017 05 PM Form3-2-I_En

Project Monitoring Sheet II (Revision of Plan of Operation) Project Title: MOH/JICA Health System Strengthening Project

Version 2 (20th December 2016 - 30th April 2017) Dated 1st August 2017

Project Title: MOH/JICA Health System Strengthening Project	gthening Project	Menitorina
Inputs		Solution
Expert		
Chief Advisor/QI Management System	Plan Actual Actual	
Assist Chief Advisor/QI Management System	Actual Contraction	
5S-CQI-TQM (]	Actual	
5S-COI-TOM 2		
Utilization of Medical Equipment		
Maintenance of Medical Equipment		
Project Coordinator/Training Management	Actual Plan	
Equipment		
Project vehicles and equipment/materials necessary for noriect administration		
	Plan	
	Actual	
	Dian	
	Actual	
In-country/Third country Training		
Tanzania KAIZEN TOT	Plan	
Activition	Actual Actu	
Sub-Activities		Achievements
1. Supporting/supervising system for health infrastructure management of a	II the RRHs is strengthened in the MOH	8
1-1 Establishment of foundation for the project and implementation		
	Plan	Conducted the kick-off meeting of the project
1-1-1 [MOH] Establish TWG for the phase 2 project	Actual	implementation structure and the
(ng Committee
1-1-2 [MOH] Select focal persons for 5S, user training (UT), and OOO OO OO OO OO OOO Medical equipment (ME) maintenance	Actual Actual	Learning a mee (9) importance. Teams. (5S-COI-TQM, UT and ME maintenance)
1-1-3 [TWG] Develop TORs for members of TWG and action plans $\bigcirc \bigcirc \bigcirc$	Plan	Developed Work Plans based on the
for implementing the project		ysis
1-1-4 ITWGI Conduct baseline survey	Plan	Conducted situation analysis for all of the targeted hospitals and
I		
1-1-5 [TWG] Update and/or create manuals, handbooks,	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Developed concept note of CQI Guidelines and 5S-CQI-TQM
guidelines, and monitoring tools for dissemination	Actual Facilitators Gu	
1-1-6 [TWG] Define criteria for national show case and review a	Plan	Since definition of national show case should follow QI framework,
national show case(s)	Actual	it is necessary to discuss with
1-1-7 ITWG] Review existing supervision system of MOH	00000	Supervision system will be
	Actual	discussed QAD in consideration of
mine the supervision system)	HFQAP
= 1	O O Plan Conducted Re	efresher Training of 5S
alitators"	Actual National Facilitators	,
1-2-2 [TWG] Conduct training of trainers for 5S-CQI-TQM O O especially customized for CQI	Actual	CQI training is planned in May 2017
1 2 TUVCI Occasiza connetiniities to share and searchines and	Plan	Awarded a trophy to Fort Portal WS
I-2-3 I well bignize opportunities to share good practices and lessons learned such as study tours and QI competition	Actual	ws Performance
1-3 Implementation of activities. and monitoring and evaluation. and		Bu
1-3-2 [TWG] Conduct supervision which is integrated into the OOO	Actual Company of the second sec	Steering Committee meeting was
g system		not conducted regularly due to
1-3-3 [TWG] Hold meetings at least bi-monthly with the project		difficulty of arrangement
1-3-4 [TWG] Conduct a review meeting on established system in	0	
HWO1Mala un de antimu de anti ilu d. 0.4 da -		
1-3-3 [1 wo] make use of tevew of activity 1-3-4 for the institutionalization of the system and methodologies, and reflection to the the sector individual	Actual	
	0	
		_

Project Monitoring Sheet II (Revision of Plan of Operation) MOH/JICA Health Svstem Strengthening Project

Version 2 (20th December 2016 – 30th April 2017) Dated 1st August 2017

Project Title: MOH/JICA Health System Strengthening Project	engthening		
Activities Sub-Activities		2016 2017 2016 2017 2016 2017 2016 2017 2017 2017 2017 2017 2017 2017 2017	
2. Implementation mechanism of the phase 1 targeted hospitals aimed at COI level for resource management and	pitals aimed at		measures
quality filiproverinent is established to fullction as reading cases based on the outcomes of the phase [2-1 System development and implementation	cases pased o		
2-1-1 [Phase 1 target hospital and important	0	Plan	
2-1-2 [Phase 1 target hospitals] develop action plans of WITs at each ohase 1 target hospital	0	Plan Plan Training in Kabalé RRH for	
2-1-3 [[Bhase 1 tarret hosnitals] Hold hariodis meetings of OIT	0		
1			
2-1-4 [Phase 1 target hospitals] Implement activities aming at CQI O with proper usage and maintenance of ME in collaboration with UT	0		
ariu ME mamenarios acuviues 2-2 Training			
	0		
2-2-2 TTWG] Conduct refresher training for regional 5S facilitators	0		
)		Actual	
2-2-3 [TWG] Conduct 5S CQI training to hospitals with high level O Dradtices of 5S-CQI-TQM	0		
((
2-24 [TWG] Conduct refresher training for regional user trainers	C C C	Management Training for P1 User	
2-2-5 [User trainers] Train staff of their hospitals on how to use ME on the job training basis	0	Plan Actual Actual	
3. Foundation for implementation mechanism of the phase	2 targeted	hospitals for resource management and quality	
improvement is introduced and established.			
3-1 Зузсели цемеюрилени ана пиреплениацон 3-1-1 ПТМGI Sumont farget hosnitals to establish and/or □○ ○		Plan	
)		
3-1-2 [TWG] Support target hospitals establish and/or strengthen O	0	Plan Conducted following up visit to the	
·)	Actual	
3-1-4 [Phase 2 target hospitals] Implement 5S activities with proper O	0	Plan	
	,	Actual	
3-2 Iraining	C	Dan Dan Conducted the Leadership	
9-2-1 [1990] Contouch eacership and management training to management staff of target RRHs			
3-2-2 [National 5S facilitators] Conduct training of trainers (TOT) on	0		
(Actual performed hospital	
5-2-3 [regional 55 lacilitator] Conduct 55-CUFI CM valuing for staff of phase 2 targeted hospitals			
3-2.4 [Regional user trainers trained phase 1 project] Conduct TOT regarding UT for the phase 2 targeted hospitals		Plan Description Actual Conducted TOT for Project User	
2.0.5. Il locr trainant Ocaduat 11T an ME	000000000000000000000000000000000000000		
	(Actual	
3-2-6 [User trainers] Train other staff of RRHs on how to use ME on the job training basis	0	Plan Actual Actual	
4. ME maintenance and management capacity of worksho	S	trengthened.	Π
	0		
4-1 [1 Word Conduct leadership and management utaming for workshop managers including inventory data analysis			
	-	Actual Maintenance Workshops	
4-2 [TWG] Conduct training for Workshop (WSs) staff on ME			
nieuriotienoo 4 a. TTM/OT Conditat training far anna atalf af tha WICs an haning			
4-3 [1 Wo] Conduct training for core start of the WSS on basics about specialized ME			
4-4 [TWG] Strengthen support system of the CWS for other O	0	Plan Plan Conducted support supervision to Actual RVS	
	C		
4-5 [TWG] Support WSs to develop a management system for accumulating knowledge and skills)		
Duration / Phasing	<u> </u>	Actual	
		2016	
Monitoring Plan	1	Plan Z016 Z017 Actual I I I I I Solution	Ľ
Monitoring			
Joint Coordinating Committee			:
Set-up the Work Plan of Operation		Plan Jenn Jenn Jenn Set-up the Work Plan of Operation Japanese experts will discuss the Actual Jenn Set-up the Work Plan of Operation Japanese experts will discuss the Actual Jenn Set	l discuss the
Submission of Monitoring Sheet		Plan Actual Actual	
Monitoring Mission from Japan			
Joint Monitoring			

on Report		Plan	 	 			
n Report		Actual	 	 	 	 	
n Report		Plan			 		
n Report		Actual	 	 	 		
n Report	Reports/Documents						
n Report		Plan	 	 	 		
n Report		Actual	 		 		
		Plan	 	 	 		
		Actual	 	 	 		
	Public Relations						
		Plan	 	 	 		
		Actual	 	 	 	 	
		Plan	 	 	 		
		Actual	 	 	 	 	

To CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 3 (Term:1st May, 2017 – 23rd October, 2017)

Name: Dr. Olaro Charles <u>Title: Project Director</u> <u>Name: Hiroshi Tasei</u> <u>Title: Chief Advisor</u> <u>Submission Date: 17th November 2017</u>

I. Summary

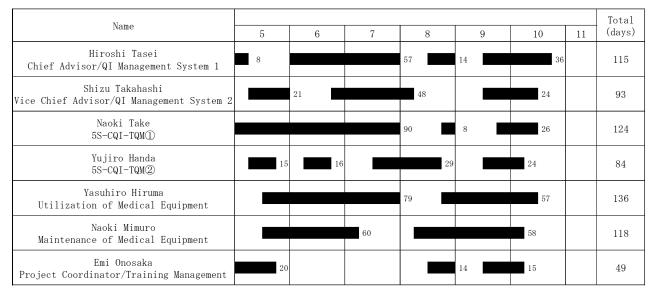
1 Progress and Achievements of the Project

1-1 Progress of Inputs

[The Japanese side]

1-1-1. Dispatch of Project Expert Team

Japanese experts were dispatched on schedule. The list of the dispatched Japanese experts is shown in the table below.



1-1-2. Producing of the 5S tool kit

The Japanese experts produced a 5S tool kit. The contents of the tool kit include: a carrying bag with several types of stationary such as marker pens, scissors, tapes, etc. The tool kit will be delivered to all Work Improvement Teams (WITs) in target facilities. Jinja Reginal Referral Hospital (RRH), Mubende RRH and Entebbe General Hospital (GH) received the tool kits in the Project term 1 and rest of the kits will be delivered in the Project term 2.

1-1-3. 4th National Healthcare Quality Improvement Conference

The Project on the Improvement of Health Services through Health Infrastructure Management II (the Project / P2) supported the organization of the 4th National Healthcare Quality Improvement Conference (QI Conference). The details are shown in 1-2-1 (3).

1-1-4. Holding the 2nd Joint Coordination Committee (JCC) meeting

The 2nd JCC meeting of the Project was held on 20th October 2017, and chaired by Director of Clinical Services, Dr. Olaro Charles.

- (1) Attendants
- JCC members:
 - Director Health Services/Clinical Services
 - **Commissioner Clinical Services**
 - Chief Representative of the JICA Uganda Office
 - Chief Advisor of the Project
- Other members
 - Commissioner Quality Assurance & Inspection
 - Commissioner Nursing
 - One (1) member from Central Workshop (WS)
 - Three (3) from the JICA Uganda Office
 - One (1) from Embassy of Japan
- (2) Main agenda and discussion points.
- Reviewing of record of the 1st JCC meeting
- The progress of the Project term 1 was shared among all members
- Approval for Project Design Matrix (PDM) ver.1
- All members discussed the prospect of funding by the Ministry of Health (MOH) for the Project activities. The Chairperson confirmed that the funding for FY 2017/2018 will be discussed in Technical Working Group (TWG) of budget.

[The Uganda side]

1-1-5. Assignment of Counterparts

- (1) Nineteen (19) National 5S-CQI-TQM Facilitators implemented the 1st 5S Monitoring and Evaluation (M&E) in all RRHs.
- (2) One (1) National 5S-CQI-TQM Facilitator conducted the 1st 5S-CQI training.
- (3) Four (4) former project (P1) User trainers conducted Training of Trainers (ToT) for the P2 User trainers.
- (4) P1 User trainers conducted supervision with a Japanese expert (UT: Mr. Hiruma) as per the schedule to seven (7) P2 targeted hospitals.

1-1-6. Personnel Cost for Counterparts and Other Running Expenses (daily allowance)

MOH allocated the per diem for participants for 5S-CQI training for WSs (Activity 4-5) conducted at Mubende RRH on 27th – 29th September 2017. A total of twenty-eight (28) participants, including technicians and engineers, took part in the training.

1-2 Progress of the Activities

1-2-1. Activities of the Output 1

(1) Development of 5S-CQI-TQM Guidelines and 5S-CQI-TQM Facilitators Guidebook

Related to	Planned in October-December 2016		
activity 1-1-5			
Details	• 5S-CQI-TQM Team is revising the current 5S Guidelines by adding		
	information on CQI and clarifying the description of supervision and		
	M&E of 5S-CQI-TQM.		
	• 5S-CQI-TQM Team is developing the 5S-CQI-TQM Guidebook for		
	reference in collaboration with National 5S-CQI-TQM Facilitators.		
Achievement	• The Guidelines and Guidebook were drafted by the end of October		
	2017.		

(2) Training of New National 5S-CQI-TQM Facilitators

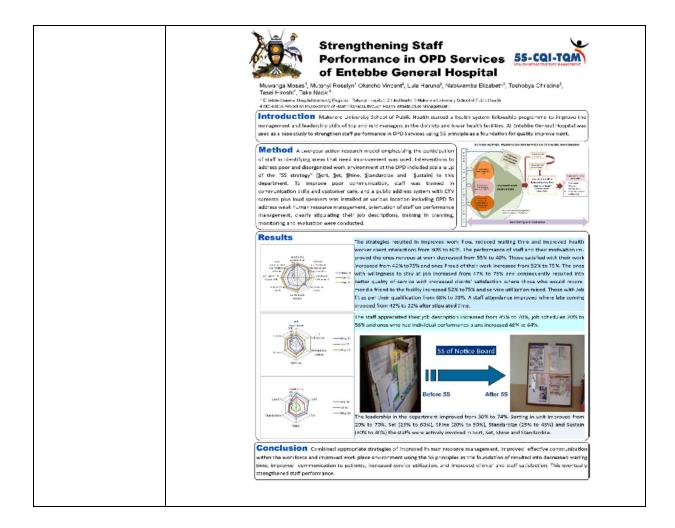
Related to	Planned in October 2016 and January-February 2017
activity 1-2-2	
(also 2-2-2/3-2-2)	
Details	• 5S-CQI-TQM Team implemented a training session to develop the
	capacity of thirteen (13) new National 5S-CQI-TQM Facilitators
	including two (2) from Private Not for Profit (PNFP) organizations on
	20th and 21st June 2017, in Kampala. The training focused on
	building capacity to train health facilities on 5S-CQI-TQM activities.
	• On 26th and 27th July, another opportunity for training was provided
	for seventeen (17) National 5S-CQI-TQM Facilitators in Entebbe GH
	to standardise skills to monitor and evaluate 5S through the use of
	the modified M&E tools.
Achievement	• As a result of the training session in June, the number of National
	5S-CQI-TQM Facilitators increased to twenty-one (21).
	• Seventeen (17) National 5S-CQI-TQM Facilitators obtained the skills
	of M&E of 5S and implemented the 1st M&E in all RRHs in August
	2017.

Way Forward/	•	Budget	(per	diem)	for	supervision	of	National	5S-CQI-TQM
Challenges		Facilitat	ors sh	all be a	lloca	ted properly b	oy N	IOH.	

(3) 4th National Healthcare Quality Improvement Conference

Related to	Planned in December 2016, May 2017, September 2017, October 2017
activity 1-2-3	and December 2017
Details	• 5S-CQI-TQM Team helped MOH organise the QI Conference in
	August 2017 in Kampala integrating the elements of the 5S
	Conference held in P1.
	• 5S-CQI-TQM Team was involved in a series of organizing
	committee meetings and arranged the invitation of Dr. Eleuter Roki
	Samky, the former Director of Mbeya Zonal Referral Hospital,
	Tanzania, as a keynote speaker.
	• 5S-CQI-TQM Team helped RRHs make presentations for the QI
	Conference and facilitated participants from RRHs.
Achievement	• A keynote speech by Dr. Samky was made at the QI Conference.
	• In the keynote speech titled "Innovations in Quality Improvement
	with Focus on 5S Methodology", Dr. Samky showed how Mbeya
	Hospital has moved forward 5S-CQI-TQM since August 2007 and
	what it has achieved, e.g. revenue increase, reduction of waiting
	time at OPD and costs for waste management. Dr. Samky also
	emphasized importance of leadership through involvement of
	doctors and highly learned staff and realization of visible growth of
	5S-CQI-TQM such as establishment of "5S showcase".
	• A participant of QI Conference commented "Dr. Samky made me
	understand why I was getting stuck at one point in progressing with
	5S".





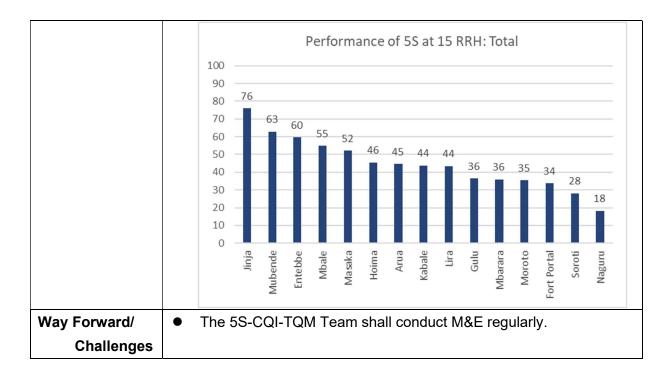


Related to	Planned in October 2017
activity 1-1-7	
Details	• The original 5S M&E tool was modified with reducing items of
	evaluation and deleting an evaluation criterion of "sustain". Initially
	the tool was drafted for a field test.
	• 5S-CQI-TQM Team conducted the field test of the modified 5S M&E
	tool on 6th and 7th July in Arua and Lira RRHs.
	Based on the result of the field test, instructions on how to evaluate
	the items were added to the tool. It was further elaborated and
	scrutinised at the training session of National 5S-CQI-TQM
	Facilitators on 26th and 27th July.
Achievement	• Following the scrutiny in July, the modified M&E tool was used for
	the 1st 5S M&E in August 2017.

(4) Field Test of Modified 5S M&E Tool

(5) The 1st M&E of 5S

Related to	Planned in January 2017-February 2020
activity 1-3-2	
Details	• 5S-CQI-TQM Team allocated seventeen (17) National 5S-CQI-TQM
	Facilitators to all RRHs to implement the 1st 5S M&E in August 2017.
	• The results of the 1st M&E were shared with National 5S-CQI-TQM
	Facilitators and RRHs.
Achievement	• Scores of 5S are illustrated below. And detailed results of M&E for
	all target hospitals are shown in Attachment III.
	• 5S-CQI-TQM Team obtained the 5S scores of all RRHs as a
	baseline.



(6) TWG meeting (Steering Committee (SC) meeting)

Related to	Planned in every three (3) months
activity 1-3-3	
Details	 Project TWG (SC meeting) was held on 16th October and chaired by Commissioner Clinical Services, Dr. Amone. Commissioner Quality Assurance & Inspection (5S-CQI-TQM), one (1) member for Clinical Services (UT), One (1) member from Central WS(ME) and three (3) members of Japanese experts attended the meeting.
Achievement	 The progress of the Project term 1 was shared among all members. Modification of PDM ver.0 was discussed and confirmed by all members All members agreed the necessity of counterpart funding for the Project activities. The issue should be discussed at JCC.
Way Forward/ Challenges	 SC meetings shall be held regularly.

1-2-2. Activities of the Output 2 and 3

- (1) 5S-CQI-TQM
- 1) CQI Training

Related to	Planned in May-October 2017
activity 2-2-3 and	
3-2-3	
Details	• 5S-CQI-TQM Team trained four (4) hospitals (Entebbe GH, Kabale
	RRH, Mbale RRH and Mubende RRH) in CQI on 15th – 17th May
	2017 in Entebbe. A total of sixteen (16) staff members (four (4) from
	each hospital) participated in the training.
Achievement	• The participants increased their knowledge on CQI according to a
	comparison of pre- and post-test results. The average score was
	seventy-four (74) % on the pre-test and eighty-three (83) % on the
	post-test.
	• In this group work of the method of problem solving (small CQI), the
	participants learned the small CQI in work processes.
Way Forward/	• Since theoretical CQI knowledge was focused in this training, the
Challenges	participants are needed to understand CQI processes practically. It
	will be required the follow-up visits or supervision to complement
	CQI knowledge by hospitals.

2) 5S Basic Training for Wakiso District and PNFP

Related to activity 3-2-3	Planned in October 2017 and January 2018-May 2020
Details	 As an initial intervention for the rollout of 5S-CQI-TQM at the district level and PNFP facilities, 5S-CQI-TQM Team provided a 5S basic training for Wakiso District and PNFPs on 8th and 9th August in Entebbe. In total, twenty-three (23) staff members (fifteen (15) from Wakiso, six (6) from Uganda Catholic Medical Bureau and two (2) from Uganda Muslim Medical Bureau) participated in the training.
Achievement	• The participants increased their knowledge on CQI after a comparison of pre- and post-test results. The average score was seventy-six (76) % on the pre-test and eighty-four (84) % on the post- test.
Way Forward/ Challenges	• 5S-CQI-TQM Team shall consider whether or not to conduct supervision for Wakiso District and PNFP facilities.

Related to activity 3-2-4	Planned in July 2017
Details	 ToT was conducted on 5th – 9th June 2017 at Jinja RRH. The course content included the usage of nine (9) items of basic medical equipment and teaching the skills of User Training (UT). The trainers also covered the teaching methods for the ten (10) items of basic medical equipment learned at the previous training session (March 2017). They were trained on how to conduct training. The target medical equipment is shown in Attachment IV, Table 1. It was carried out by one (1) Japanese expert, three (3) JICA volunteers, and four (4) P1 User trainers as shown in Attachment IV, Figure 1. The UT counterpart from MOH could not join in the training due to the busy schedule he had. The training was attended by fourteen (14) P2 trainers from the seven (7) RRHs. Pre- and post-test was conducted, as well as the practical test for the trainer.
Achievement	 the trainers. All fourteen (14) User trainers selected from the seven (7) target hospitals came and participated in the training. An increase in knowledge and understanding of ToT was realized as reflected in Attachment IV, Figure1, with the results of pre- and post-test indicating fifty-six (56) % and seventy-seven (77) %, respectively. The trainers were assessed on the practical test as reflected in Attachment IV, Figure 2. The result was shown that all trainers were over seventy (70) %. Therefore, all trainers can be considered as having acquired basic teaching skills for medical equipment items 1-19.
Way Forward/ Challenges	 Target medical equipment of ToT shall be increased from nineteen (19) items to twenty-six (26) items. User trainers shall learn a medical equipment inventory system.

(2) Utilization of Medical Equipment (User Training) 1) ToT for P2 User Trainers

Related to	Planned in June-September 2017
activity 3-2-5 and	
3-2-6	
Details	 The Japanese expert (UT: Mr. Hiruma) and fourteen (14) P1 User trainers carried out the following support supervision at the respective seven (7) target hospitals (Jinja, Soroti, Gulu, Mubende, Fort Portal, Mbarara, Naguru). 19th Jun – 7th July 10th – 21st July 28th August – 7th September The objectives of support supervision were as follows: Confirmation of the training skill of P2 User trainers. Advice and guidance to P2 User Trainers. Confirmation of the target medical equipment condition Collaboration with WS activities about inventory analysis Discussion about the key issues and their countermeasures with Hospital Director, Principal Hospital Administrator (PHA), Principal Nursing Officer (PNO) and WS staff
Achievement	 Principal Nursing Officer (PNO) and WS staff. Support supervision was conducted three times. All fourteen (14) P2 User trainers were able to conduct trainings at their respective hospitals as shown in Attachment IV, Tables 2, 3 and 4. Pre- and post-test were used to assess the degree of understanding of participants for medical equipment as shown in Attachment IV, Figure 3 - 9. The results were shown that most of participants understood appropriate usage of medical equipment. The participants evaluated P2 User trainers to confirm their training skills as shown in Attachment IV, Figure 10 - 23, which can be considered the majority as having acquired average training skills. The participants were satisfied with the training skills of the P2 User trainers.
Way Forward/ Challenges	 Budget (per diem) shall be allocated from MOH properly for the regular supervision.

2) Support Supervision

Related to	Planned in June (18th meeting) and September (19th meeting) 2017
activity 4-5	
Details	 The two (2) meetings were held on a quarterly basis on 7th and 8th June 2017, at Masaka (18th) and 26th September 2017, at Mubende (19th). RRHs' Directors, Administrators, Health Infrastructure Division (HID), MOH Officials, development partners (i.e., Strengthening Uganda's Systems for Treatment AIDS Nationally (SUSTAIN), Infectious Disease Institute (IDI), American International Health Association (AIHA) and JICA) and all the WS Managers were invited to discuss the key issues and countermeasures of the WSs. Every WS Manager gave a brief presentation of the previous quarter of the planned work performance.
Achievement	 These meetings have been the main constant platform for sharing knowledge and skills required by activity 4-5. In the brief presentation of quarterly reports by each WS Manager, the presentation skills have gradually been improved. One advantage was that the outcomes, HID strategy and the key issues were shared with the core stakeholders (e.g., RRHs' Top Management, MOH officials and the development partners.) In the 19th meeting, the Japanese expert (ME: Mr. Mimuro) reported the followings: Findings from the support supervision sessions of WSs. Awarding the best WSs (Lira WS and Fort Portal WS) and the best increased performance WS from the previous year (Mubende WS) based on the performance scoring analysis. Introducing the standardised equipment service stickers.
Way Forward/	Information of implementation partners' activities shall be shared
Challenges	regularly by the meeting.

1-2-3. Activities of the Output 4

(1) 18th and 19th WS Performance Review Meetings

Related to	Planned in June (the 1st batch) and July (the 2nd batch) 2017					
activity 4-3						
Details	 The 1st training session was conducted for five (5) days at Jinja RRH on 12th – 16th June 2017, and twenty-three (23) technicians participated from eleven (11) WSs and one (1) RRH. Two (2) service engineers from the GE Healthcare local agent and one (1) experienced anesthesiologist have been taken on as facilitators. The 2nd training session was slightly different from the 1st training session and took place at Kyambogo University on 3rd – 7th July 2017. A total of twenty-three (23) trainees including twelve (12) technicians, nine (9) User trainers and two (2) JICA volunteers participated from the targeted WSs and RRHs. Two (2) biomedical engineers from the university and one (1) experienced anesthesiologist have been taken as facilitators. For both training sessions, the target equipment was: 1) Anesthesia Machine, 2) Ventilator, 3) Electrocardiogram (ECG), 4) Patient 					
Achievement	 monitor and 5) Medical gas system. According to the test results, the average scores in comparison 					
Admovement	with the pre-test and post-test registered improvement as follows:					
	TrainingPre-testPost-testBalance(Full score 100)(Full score 100)Post – Pre1st42.078.236.22nd40.478.438.0In relation to the above results, the level of knowledge was greatly					
	 mproved through this training. Regarding the 1st training session at Jinja, approximately eighty 					
	 (80) % of the total expenses were financed by the HID budget as one example of MOH initiatives. 					
	• The 2nd training session had a unique concept that involved User					
	trainers, as well as WS technicians, to improve both knowledge and working relationships. On the last day of training, a standard					
	request form for UT was developed under the group work.					
Way Forward/	• Senior level technicians shall be included to the training.					
Challenges	• Target equipment of intensive care, neonatal care, emergency care					
	and/or operation theater shall be added.					

(2) Two Training Sessions on First Line Maintenance of Specialized Medical Equipment

Related to	Planned in September 2017
activity 4-5	
Details	 Training was conducted for three (3) days at Mubende on 27th – 29th September 2017, to improve the skills of 5S-CQI implementation for WS technicians. Twenty-eight (28) technicians and engineers participated. Three (3) Japanese experts and one (1) National 5S-CQI-TQM Facilitator from Mubende RRH carried out the facilitation. The program included outline of the 5S-CQI-TQM framework, work process analysis, problem analysis and small CQI practice. The participants were given an assignment to implement at least a small CQI activity before the end of December 2017 and report to the Japanese experts and HID senior engineers. Some good cases of small CQI will be reported at the next WS Performance Review Meeting.
Achievement	 According to the test results, the average score was 74.9 points on the pre-test and 82.7 points on the post-test, registering a slight improvement. In the group work practical sessions, the participants learned the method of problem solving on work processes, which was the main goal of the training. The small CQI cases of WSs will stimulate hospital CQI activities.
Way Forward/	• Small CQI activities shall be reported by the participants before the
Challenges	end of December 2017.
J	

(3) 5S-CQI Training for WSs

(4) Support Supervision

Related to	Planned in August-September 2017			
activity 4-4				
Details	 MOH counterparts and the Japanese expert (ME: Mr. Mimuro) carried out the following support supervision for ten (10) WSs. 27th – 31st August: Kabale, Fort Portal, Mubende, Hoima 5th – 8th September: Lira, Soroti, Mbale, Jinja 18th – 19th September: Arua, Gulu The objectives of support supervision were as follows: Confirm and advise on the availability of the Annual Work Plan. 			

	Collect data on staffing, released budget, process for routine				
	maintenance, spare parts purchase, inventory update, etc., for				
	reviewing the WSs' performances.				
	Emphasise UT activities.				
	 Standardise format of equipment service stickers. 				
	 Monitor 5S implementation in WSs. 				
	\cdot Discuss the key issues and their countermeasures with				
	respective Hospital Directors, Administrators and WS Managers.				
Achievement	 Based on the analysis of collected data, the WSs' performances 				
	were generally improved as shown in Attachment V.				
	• High performing WSs in 5S activities: Fort Portal, Arua and Lira				
	WSs.				
	• The good collaboration between WS technicians and User trainers				
	was identified in most WSs compared to the previous performance				
	review assessment of September-October 2016.				
	 Although the format was still not standardised, most WSs created 				
	an annual work plan as compared with the past few years.				
	• The specific findings were shared with the respective hospital top				
	management.				
Way Forward/	 Supervision shall be conducted regularly. 				
Challenges	• All WSs shall be identified the good collaboration with User				
	trainers.				
	• The format for an annual work plan shall be standardised and all				
	WSs shall create their annual work plans.				

(5) Development of New Equipment Service Stickers

Related to	Planned in July-September 2017			
activity 4-5				
Details	 Most WSs had started using the equipment service stickers to improve the quality of planned preventive and corrective maintenance services. However, the sticker format had not been uniform for all WSs. 			
Achievement	• The sticker format was standardised through summarising various opinions suggested by WS staff (e.g., the contents on the sticker were simplified and some check items were added).			

	Old format (Central & Mubende WS) New standard format				
	Image: State and the state of the state				
	• The 1st trial stickers with respective WS names were printed using				
	JICA funds and distributed to each WS on September 2017.				
	Additional stickers will be printed on individual workshop budgets				
	after the stock is used.				
	• The new sticker can also be used by User trainers.				
Way Forward/	The system of the equipment service stickers shall be established				
Challenges	in all WSs.				
	 Budget of re-printing of stickers shall be allocated by MOH. 				

1-3 Achievement of Output

1-3-1. Output 1

• The Japanese experts, in consultation with the counterparts, reviewed the indicators, baseline figures and means of verification for Output 1 while proposing the PDM modification.

Output 1				
Supporting/supervising system for health infrastructure management of all the RRHs is				
strengthened in the MOH				
Current Indicators	Achievement			
1-1				
PDCA cycle of supporting and	PDCA cycle of supporting and supervising			
supervising RRHs is completed once a	RRHs was not conducted.			
year or more.				
1-2				
The number of supervision sessions	The 2nd SC was conducted 16th October.			
conducted by SC becomes more than	2017.			
XX times.				
1-3	[5S-CQI-TQM]			

Number of training organised by TWG	- Leader ship training (1)		
becomes more than XX times.	- Facilitator refresher training (3)		
	- 5S training (3)		
	- CQI training (1)		
	[UT]		
	- Refresher training (1)		
	- ToT (2)		
	[ME]		
	- Leadership training (1)		
	- Maintenance training on basic medical		
	equipment (1)		
	-Maintenance training on specialized		
	medical equipment (2)		
	-5S-CQI Training for WSs (1)		
1-4			
Number of certified National CQI	MOH: three (3) facilitators		
Facilitators from MOH becomes more	District Health Team: one (1) facilitator		
than XX.	RRH/RH: six (6) facilitators		

(Other achievements)

- Lira RWS was motivated with presentation of a trophy before all Hospital Directors, Administrators and WS Managers.
- The concept notes for the CQI Guidelines and 5S-CQI-TQM Facilitators Guidebook were developed and shared. The development of the Guidelines and Guidebook will proceed based on the draft version.
- The members of SC emphasized SC meetings shall be held regularly and Chairperson of SC meeting committed to hold the SC meeting regularly in the Project term 2.

1-3-2. Output 2 and Output 3

The Japanese experts, in consultation with the counterparts, reviewed the indicators, baseline figures and means of verification for Output 2 and Output 3 while proposing the PDM modification.

Output 2

Implementation mechanism of the phase 1 targeted hospitals aimed at CQI level for resource management and quality improvement is established to function as leading cases based on the outcomes of the phase 1.

Current Indicators	Achievement		
2-1			
Number of the Phase 1 target hospitals	The Project team didn't identify the CQI		
which started CQI activities becomes	activities in target hospitals.		
more than XX.			
2-2			
Number of the Phase 1 target hospitals	The Project team didn't identify the CQI		
which completed CQI process at least	process at any units in target hospitals.		
with one unit becomes more than XX.			
2-3			
Number of UT conducted by regional	Refer to below table of number of UT		
trainers is more than XX times.	conducted in facility		
2-4			
Number of functioning WITs in target	The Project team didn't identify the		
hospitals reaches the level of ten (10)	functioning WITs that reached level ten		
under the 5S-CQI-TQM implementation	(10).		
becomes more than XX.			

Number of UT in facilities

Hospital Name	Arua	Lira	Mbale	Kabale	Hoima	Masaka	Entebbe	Moroto
No. of UT conducted (Jun.–Sep. 2017)	4	4	2	1	1	4	2	3
Hospital Name	Jinja	Soroti	Gulu	Mubende	Fort Portal	Mbarara	Naguru	
No. of UT conducted (Jun.–Sep. 2017)	0	0	0	0	0	0	0	

Output 3				
Foundation for implementation mechanism of the phase 2 targeted hospitals for				
resource management and quality improv	vement is introduced and established.			
Current Indicators	Achievement			
3-1	As the results of M&E for all target			
All the Phase 2 target hospitals	hospitals in Attachment III, 5S activities			
implement Quality Improvement Team	were identified in all target hospitals			
(QIT) activities including 5S-CQI-TQM.	(Arua, Lira, Mbale, Kabale, Hoima,			
	Masaka, Moroto, Jinja, Soroti, Gulu			
	Mubende, Fort Portal, Mbarara and			

	Naguru).			
3-2				
Average of comprehension rate of	The result of test was fifty-six (56) % for			
trainees after UT becomes higher than	pre-test and seventy-seven (77) % for			
XX%.	post-test on average.			
3-3				
More than one (1) reginal 5S facilitators	A total of twenty-five (25) staff members			
at each Phase 2 target hospitals are	- five (5) staff members from each of the			
trained.	five (5) hospitals (Fort Portal, Gulu,			
	Mbarara, Naguru and Soroti) – were			
	trained.			
3-4				
More than two (2) regional User trainers	Fourteen (14) trainees from the P2			
at each Phase 2 target hospital are	target hospitals were trained. (Basic			
trained.	medical equipment only)			

(Other achievements)

- The 1st 5S M&E was conducted. And the result will be adopted as a baseline.
- Sufficient knowledge and skills were acquired to perform as User trainers and National 5S-CQI-TQM Facilitators who will conduct the support supervision of health facilities through refresher training.

1-3-3. Output 4

 According to the medical equipment inventory data, Japanese experts, in consultation with the counterparts, reviewed the indicators, baseline figures and means of verification for Output 4 while proposing the PDM modification.

Output 4						
ME maintenance and management capacity of workshops (WS) are strengthene						
Current Indicators	Achievement					
4-1	Increased average score 29.8%					
The knowledge of trained staff is	1st training session (Management)					
improved by a minimum of fifteen (15) %	36.2%					
compared to the average scores of pre-	2nd training session (Basic medical					
test and post-test.	equipment) 31.0%					
	3rd training session (Advanced medical					
	equipment) 36.1%					
	4th training session (Advanced medical					

	equipment) 37.8%
	5th training session (5S-CQI) 7.8%
4-2 Total average percentage of medical equipment in status C and status E is not higher than 15%.	Baseline in October 2016: 22.1% (C 17.9% + E 4.2%)

(Other achievements)

- Most WSs are gradually improving on reporting, documentation, procurement and maintenance work.
- The new medical equipment service sticker was developed and new stickers can be used by User trainers.
- 5S activities have been implemented in most WSs.

1-4 Achievement of the Project Purpose

• The Japanese experts, in consultation with the counterparts, reviewed the indicators, baseline figures and means of verification for the project purpose while proposing the PDM modification.

Current Indicators	Achievement				
Score sheet of 5S-CQI-TQM on target	Results are shown in Attachment III 5S				
hospitals become more than XX%.	baseline scores.				
The number of CQI practices becomes	The Project team didn't identify the CQI				
more than XX (number).	activities in target hospitals.				
Supervision on 5S, UT and ME which	[UT supervision]				
are integrated into the MOH system in a	-19th June-7th July				
consolidated way are implemented more	-10th-21st July				
than XX times.	-28th August-7th September				
	[ME supervision]				
	-27th-31st August: Kabale, Fort Portal,				
	Mubende, Hoima				
	-5th-8th September: Lira, Soroti,				
	Mbale, Jinja				
	-18th-19th September: Arua, Gulu				
Percentages of status A of medical	Baseline in October 2016: 65.1%				
equipment becomes higher than XX%.	(average)				

• Setting baseline data of medical equipment inventory as quantitative indicators through

analysis of medical equipment inventory.

1-5 Changes of Risks and Actions for Mitigation

(1) Necessary Funds for Project Activities

MOH's budgetary allocation for the 1st quarter (July – September) was not enough. The P1 User trainers could not carry out the support supervision in June and July due to a lack of allowance for User trainers. The Japanese expert conducted the said supervision. Under this situation, MOH decided to squeeze necessary budget for 5S-CQI training for WSs conducted in September. The budget of the 5S-CQI training for WSs was implemented according to the operating procedure mentioned 1-6 (1). The same procedure will be adopted for future plans.

(2) Difficulty in Cooperation with Implementation Team

It was difficult to hold regular meetings and smooth collaboration activities with the Implementation Team, 5S-CQI-TQM, User trainer and ME. Each counterpart has an excessive workload, several other meetings, and handles the coordination of partners' projects. In addition, the project SC meeting could not be held regularly. It will be necessary to review the rolls of the Project Implementation Teams.

1-6 Progress of Actions Undertaken by JICA

(1) Necessary Funds for Project Activities

JICA approved additional funds for the Project activities until the end of fiscal 2016/2017. Entering FY 2017/2018, the MOH's budgetary allocation for the 1st quarter (July, August, September) was a mere 4% (about 2.24 million shillings) of MOH's total budget, which made it clear that covering the Project activities would be unrealistic. Since suspending activity in July and August would have major repercussions on future activities and outcomes, an agreement was entered that expenses will be covered by the Japan side until the budget execution by the MOH become possible.

Based on discussion between JICA Uganda and MOH, MOH Permanent Secretary (PS) agreed to cover per diems for MOH staff engaged in the Project activities and acknowledged the following operating procedures:

- The Project side will present the training summary and applicable staff, and either the Project manager or executing team manager will issue a Request of Funds, Internal Memo to the PS.
- ② PS will determine items assignable as expenditures within the MOH budget and direct the MOH financial department accordingly.

*Each department has a Vote Book which is a record to manage activity expenses, and the PS determines which Vote Book to pay project expenses from.

- ③ The MOH Account Department will apply to the Ministry of Finance to obtain approval.
- ④ On the 1st day of training, the attendant list, contact detail, and expenditure amounts shall be finalised and a request sent to the MOH of Health Finance Department.

The Ministry of Finance shall transfer the per diem/accommodation expenses of all participants to the proposer's bank account.

1-7 Progress of Actions Undertaken by the Government of Uganda

(1) Funds Allocated for Support Supervision of UT

The following supervision sessions were funded by the hospitals in collaboration with the JICA Project fund.

RRH	Date	Hospital Fund	JICA Project Fund
Jinja	19th Jun	Nil	- Facilitator fee
	10th July	Nil	- Refreshment fee
	30th August	- Refreshment fee	- Facilitator fee
Soroti	20th June	- Cash (Refreshment)	- Facilitator fee
		- Stationary	
	11th July	- Cash (Refreshment)	
	29th August	- Cash (Refreshment)	
Gulu	20th Jun	- Refreshment fee	- Facilitator fee
	12th July		- Stationary
	28th August		
Mubende	27th June	- Refreshment fee	- Facilitator fee
	18th July		
Fort Portal	28th June	- Refreshment fee	- Facilitator fee
	19th July		
Mbarara	29th June	- Refreshment fee	- Facilitator fee
	20th July		
Naguru	21st Jul	- Refreshment fee	- Facilitator fee
		- Stationary	
	31st August	- Refreshment fee	

(2) Funds Allocated for the Training for WSs Technicians

The following training sessions were funded by MOH in collaboration with the JICA Project

Description	MOH Fund	JICA Project Fund		
Training on advanced medical	- Allowances	- Facilitator fee		
equipment (five (5) days, at	- Transport costs	- Refreshment fee		
Jinja, June 2017)	- Part of refreshment fee	- Stationary		
5S-CQI Training for WSs	- Allowances	- Transport costs		
(Three (3) days, at Mubende,		- Refreshment fee		
September 2017)		- Venue fee		
		- Stationary		

fund.

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

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

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.)

- (1) The preparatory survey for the grant aid project by the Japanese government for the improvement of northern Uganda hospitals (Arua, Gulu and Lira RRH) started in November 2016. The target facilities of the grant aid project were included in the Project sites. The project component will include the construction of the hospital facility and the procurement of medical equipment. It is expected to have a positive influence on health service delivery in the hospitals and the motivation of hospital staff to improve the workplace environment. The execution of the project will start in 2018.
- (2) Applying Science to Strengthen and Improvement System (ASSIST), supported by USAID, was providing direct support for improving HIV and family health services to sites in northern Uganda. It was also supporting the institutionalisation of Quality Improvement into the health sector by providing direct technical support to the Quality Assurance & Inspection in overseeing and coordinating Quality Improvement activities. It was expected to cooperate in support supervision in target facilities of the Project.
- (3) The Institutional Capacity Building Project in Planning Leadership and Management in the Uganda Health Sector Phase 2 (ICB2 project) supported by Belgian Technical Cooperation (BTC) was to strengthen the planning, leadership and management capacities of public health staff, specifically at the decentralised local government level. The target of the ICB2 project was West Nile and Rwenzori including RRH. The ICB2 project was also supporting the rolling out of UT activities in West Nile and Rwenzori.

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

2-1 Details, Causes:

- (1) Finalising of modification for PDM v.0 was not completed due to the delay of confirmation of modified items between MOH, JICA and the Japanese experts.
- (2) SC meetings were not conducted regularly due to difficulty of arrangement of three (3) Implementation Teams.
- (3) Updating of manuals, handbooks and monitoring tools was not completed. The Guidelines and Guidebook were drafted by the end of October 2017. QAID planned to update materials in the 3rd quarter of 2016/2017 or later so that the updating of project materials will follow.

2-2 Action to be Taken, Roles of Responsible Persons/organization

- (1) The plan of operation for the Project term 2 will be developed according to PDM v.1.
- (2) The SC meeting was held on 16th October 2017. All members agreed the SC meeting will be held every three (3) months in the Project term 2.
- (3) Updating of Quality Improvement materials will be finalised the Project term 2.

3 Modification of the Project Implementation Plan

3-1 Revision of the PDM and Plan of Operation

The Project team discussed the modification of PDM v.0 according to the results of situation analysis. The proposal of the modification items in PDM v.1 was confirmed in the 2nd JCC meeting on 20th October, 2017.

II. Project Monitoring Sheet I & II as Attached

Attachment:

- I. Project Monitoring Sheet I & II
- II. PDM ver.1
- III. 5S baseline scores
- IV. Tables and figures UT activities
- V. Performance review Assessment of Reginal Workshops Aug. Sept. 2017
- VI. Performance in target facilities

Project Monitoring Sheet I (Revision of Project Design Matrix)

Project Title: Project on Improvement of Health Service through Health Infrastructure Management (II)

Implementing agency: Department of Quality Assurance, Ministry of Health (MOH) (5S-CQI-TQM)

Integrated Curative Services Division, Department of Clinical Services, MOH (Utilization of Medical Equipment)

Health Infrastructure Division, Department of Clinical Services, MOH (Maintenance of Medical Equipment)

Target Group: (1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe General Hospital (GH), Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, Moroto RRH, Mukuju HC IV, Tororo GH (2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital Period of Project: July 2016- July 2020 Project Site: Republic of Uganda

Project Site: Republic of Uganda	Objectively Verificable Indicators	Moons of Varification	Important Assumption	Achievenent	Domostro
Narrative Summary Overall Goal	Objectively Verifiable Indicators	Means of Verification	Important Assumption	Achievement	Remarks
	Clients' satisfaction level is improved to the target level. (XX)	Health Management Information System (HMIS)			
	Clients' waiting time of patients for consultation, testing, clinical examination, and prescription of drugs are reduced XX%	Annual Health Sector Performance Report (AHSPR)			
Quality of health care services at all the RRHs in Uganda is improved.	•Maintenance cost regarding medical equipment is decreased in XX%.	Periodical monitoring reports by QITs at target hospitals			
		Supervision reports made by the steering committee for the project			
		Baseline and end-line data			
		Quarterly regional workshop maintenance report			
Project Purpose	Score sheet of 5S-CQI-TQM on targeted hospitals become more than XX%.	Minutes of steering committee meetings	Government budget for the RRHs will not be deceased significantly.	Results are shown in Attachment III 55 baseline scores. The Project team didn't identify the CQI activities in target hospitals. Three (3) times of UT supervision and three (3) times of ME supervision were conducted	
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of	•The number of CQI practices becomes more than XX (number).	•Reports of steering committee	 Government budget for the workshops will not be decreased significantly. 	Percentages of status A of ME becomes 65.1% (average).	
MOH.	•Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times.	•Reports from 5S trainers	Political situation in Uganda remans stable.		
	Percentages of status A of ME becomes higher than XX%	 Score sheets of 5S-GQI-TQM at targeted hospitals. 			
Output					
	1-1 PDCA cycle of supporting and supervising RRHs is completed once a year or more.	Plans and periodic reports made by steering committee	Personnel of counterparts do not leave the job and are not transferred considerably.	PDCA cycle of supporting and supervising RRHs was not conducted. The 2nd Steering committee was conducted 16th October 2017. Training [SS-CQI-TQM] - Leader ship training (1)	
1. Supporting/supervising system for health infrastructure management of all the RRHs is	1-2 The number of supervision conducted by steering committee becomes more than XX times.	 Activity records made by steering committee of MOH 	Policy related to health infrastructure management will not be changed as a result of the presidential election.	- Facilitator refresher training (3) - SS training (3) - CQI training (1) [UT]	
T. Supporting supervising system for nearn infrastructure management of all the RRHs is strengthened in the MOH	1-3 Number of training organized by Technical Working Group (TWG) becomes more than XX times.	 Records and results of supervision conducted by steering committee 		- Refresher training (1) - ToT (2) [ME] - Leadership training (1) - Maintenance training on basic medical equipment (1)	
	1-4 Number of certified national CQI facilitators from MOH become more than XX.	•Test results and certification issued for CQI trainers at MOH		Maintenance training on specialized medical equipment (1) -Maintenance training on specialized medical equipment (2) -SS-CQI Training for WSs (1) - Certified facilitator MOH: three (3) facilitators District Health Team: one (1) facilitator REH/EM: civ (6) facilitators	
	2-1 Number of the phase 1 targeted hospitals which started CQI activities becomes more than XX.	Activity records of QITs		-The Project team didn't identify the CQI activities in target hospitals. -The Project team didn't identify the CQI process at any units in target hospitals. -Number of UT conducted	
 Implementation mechanism of the phase 1 targeted hospitals aimed at CQI level for resource 	2-2 Number of the phase 1 targeted hospitals which completed CQI process at least with one unit becomes more than XX.	Activity records of WITs Training records on UT conducted by user trainers		Arua; 4, Lira; 4, Mbale; 2, Kabale; 1, Hoima; 1, Masaka; 4, Entebbe; 2, Moroto; 3 Jinja,Soroti,Gule, Mubende, Fort Portal, Mbarara, Naguru; 0 •The functioning WIT that reached the level ten (10) were not identified.	
anagement and quality improvement is established to function as leading cases based on the outcomes of the phase 1.	2-3 Number of UT conducted by regional trainers is more than XX times.	Score sheets of 5S-CQI-TQM			
	2-4 Number of functioning WITs in target hospitals reaches the level of 10 under the 5S-CQI-TQM implementation becomes more than XX.	Project report about CQI activities			
		Supervision reports made by TWG			
	3-1 All the phase 2 targeted hospitals implement QIT activities including 5S-CQI-TQM.	Number of QITs and their activity records		As the results of M&E for all target hospitals in Attachment III, 5S activities were identified in all target hospitals (Arua, Lira, Mbale, Kabale, Hoima, Masaka, Moroto, Jinja Soroti, Gulu Mubende, Fort Portal, Mbarara and Naguru).	,
3. Foundation for implementation mechanism of the phase 2 targeted hospitals for resource	5	 Monitoring and meeting minutes of QITs related to 5S-CQI-TQM 		The result of testing was 56% for pre-testing and 77% for post-testing on average. A total of 25 staff members – five (5) staff members from each of the five (5) hospitals (Fort Portal, Gulu, Mbarara, Naguru and Soroti) – were trained.	
management and quality improvement is introduced and established.	3-3 More than 1 regional 5S facilitators at each phase 2 targeted hospitals are trained.	Supervision report made by TWG		• Fourteen (14) trainees from the P2 target hospitals were trained. (Basic medical equipment only)	
	3-4 More than 2 regional user trainers at each phase 2 targeted hospitals are trained.	•Results of pre and post tests for trainees of UT Training records on TOT for 5S-CQI-TQM •Training records on TOT for UT		loguiphion only)	
	4-1 Trained staff of all the workshops improve their knowledge by XX% after ME maintenance training.	Training records on 101 for 01 Training records related to ME maintenance		Increased average score 29.8% First Training Session (Management) 36.2% Second Training Session (Basic ME) 31.0%	1
ME maintenance and management capacity of workshops (WS) are strengthened.	4-2 Percentages of ME in status E lowered by XX%.	•Results of pre and post tests for trainees of ME maintenance		Third Training Session (Advanced ME) 36.1% Fourth Training Session (Advanced ME) 37.8% Fifth Training Session (5S-CQI) 7.8%	
		Inventory lists of each workshop		•Percentages of medical equipment in status C and E is 22.1%.(C; 17.9%, E; 4.2%)	

Dated 17th November 2017

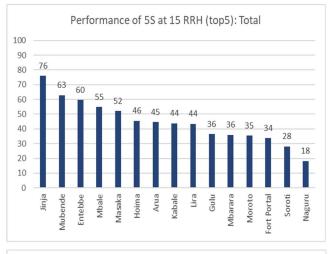
Activities		Inputs	Important Assumption
1-1 Establishment of foundation for the project and implementation	The Japanese Side	The Uganda Side	
1-1-1 [MOH] Establish TWG for the phase 2 project	1. Dispatch of Experts	1. Assignment of Counterparts	
1-1-2 [MOH] Select focal persons for 5S, user training (UT), and medical equipment (ME) maintenance	1) Chief advisor / QI Management System 2) 5S-CQI-TQM	2. Facilities	
1-1-3 [TWG] Develop TORs for members of TWG and action plans for implementing the project	3) Utilization of Medical Equipment	1) Office space for Japanese experts	
	4) Maintenance of Medical Equipment	2. Administrative cost and other evenence such as training and supervision	
1-1-4 [TWG] Conduct baseline survey	5) Project Coordinator/ Training Management	3. Administrative cost and other expense such as training and supervision	
1-1-5 [TWG] Update and/or create manuals, handbooks, guidelines, and monitoring tools for	2. Machinery and equipment	4. Personnel cost for counterparts and other running expenses (daily	
dissemination	1) Necessary supplies for 5S-CQI-TQM to target hospitals and	allowance and transportation expense)	
1-1-6 [TWG] Define criteria for national show case and review a national show case(s) 1-1-7 [TWG] Review existing supervision system of MOH.	MOH headquarters 2) Testing and calibration tools and equipment etc.		
1-1-8 [TWG] Integrate components of 5S-CQI-TQM, UT, and ME maintenance to the supervision	, , , , , , , , , , , , , , , , , , , ,		
system	3. Allocation of operational costs for project activities		
1-2 Training and knowledge sharing	4. Training in Japan and/or third countries		
1-2-1 [TWG] Conduct refresher training for national 5S facilitators*			
1-2-2 [TWG] Conduct training of trainers for 5S-CQI-TQM especially customized for CQI			
1-2-3 [TWG] Organize opportunities to share good practices and lessons learned such as study tours and QI competition			
1-3 Implementation of activities, and monitoring and evaluation, and reflections			
1-3-1 [TWG] Implement an action plan based on PDCA cycle.			
1-3-2 [TWG] Conduct supervision which is integrated into the existing system			
1-3-3 [TWG] Hold meetings at least bi-monthly with the project team			
1-3-4 [TWG] Conduct a review meeting on established system in MOH			
1-3-5 [TWG] Make use of review of activity 1-3-4 for institutionalization of the system and			
methodologies, and reflection to the health sector policy/plan			
1-3-6 [TWG] Conduct an end-line survey			
2-1 System development and implementation			Pre-Conditions
2-1-1 [Phase 1 target hospitals] Revitalize and/or strengthen function of quality improvement team			
(QIT) and work improvement team (WIT)			
2-1-2 [Phase 1 target hospitals] develop action plans of WITs at each phase 1 target hospital			
2-1-3 [Phase 1 target hospitals] Hold periodic meetings of QIT			
2-1-4 [Phase 1 target hospitals] Implement activities aiming at CQI with proper usage and maintenance of ME in collaboration with UT and ME maintenance activities			
2-2 Training			lssues and countermeasures>
2-2-1 [TWG] Conduct leadership and management training for management staff of targeted			•Modification of PDM v.0, related indicators and means of
hospitals			verification
2-2-2 [TWG] Conduct refresher training for regional 5S facilitators of targeted hospitals			→Modification of PDM v.0 approved in the 2nd JCC and shall be agreed between JICA and MOH.
2-2-3 [TWG] Conduct 5S CQI training to hospitals with high level practices of 5S-CQI-TQM			→The Plan of Operation for the second year of the Project
2-2-4 [TWG] Conduct refresher training for regional user trainers			will be developed according to PDM ver.1
2-2-5 [User trainers] Train staff of their hospitals on how to use ME on the job training basis			Necessary funds for project activities
3-1 System development and implementation	-		→MOH committed to provide funds for the fiscal year
3-1-1 [TWG] Support target hospitals to establish and/or strengthen quality improvement team			2017/2018 in the 2nd JCC. →JICA Uganda will issue a letter to MOH for confirmation
(QIT)			of budget allocation to the Project.
3-1-2 [TWG] Support target hospitals establish and/or strengthen work improvement team (WIT)			
3-1-3 [TWG] Support target hospitals to hold QIT periodic meetings			 Supervision system →Supervision system will be discussed with QAID in
3-1-4 [Phase 2 target hospitals] Implement 5S activities with proper usage and maintenance of			consideration of HFQAP.
ME by collaboration with UT and ME maintenance activities			Conducting Steering Committee meeting
3-2 Training			 Conducting Steering Committee meeting →The Steering Committee meeting was held on 16th
3-2-1 [TWG] Conduct leadership and management training for management staff of target RRHs			October, 2017. All member agreed the Steering Committee
3-2-2 [National 5S facilitators] Conduct training of trainers (TOT) on 5S-CQI-TQM for regional 5S			meeting will be held every three months in the second year of the Project.
facilitators of phase 2 targeted hospitals			of the Project. →Results of Project Steering Committee will be discussed
3-2-3 [Regional 5S facilitator] Conduct 5S-CQI-TQM training for staff of phase 2 targeted hospitals			in Top Management meeting of MOH
			Updating of QI materials by QAD was not completed on
3-2-4 [Regional user trainers trained phase 1 project] Conduct TOT regarding UT for the phase 2			schedule
targeted hospitals			→Draft of CQI Guidelines and 5S-CQI-TQM Facilitators
3-2-5 [User trainers] Conduct UT on ME			Guidebook will be finalized in the term 2 of the Project.
3-2-6 [User trainers] Train other staff of RRHs on how to use ME on the job training basis			
4-1 [TWG] Conduct leadership and management training for workshop managers including			
inventory data analysis			
4-2 [TWG] Conduct training for Workshop (WSs) staff on ME maintenance			,
4-3 [TWG] Conduct training for core staff of the WSs on basics about specialized ME			
4-4 [TWG] Strengthen support system of the CWS for other RWSs			,
4-5 [TWG] Support WSs to develop a management system for accumulating knowledge and			
skills			

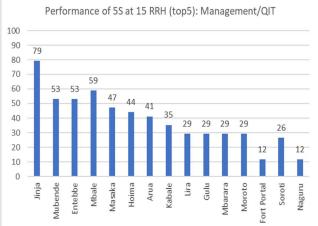
skills | *Training on 5S for 5S national facilitators and training on CQI for CQI national facilitators are categorized as activities for the output 1 because the majorities of the national 5S facilitators are MOH staff. Other training for regional 5S trainers and regional user trainers are categorized as activities for the output 2 or 3 because both types of regional trainers are staff of the target hospitals.

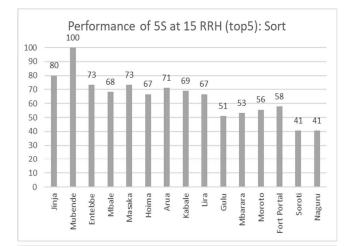
Project Monitoring Sheet II (Revision - Project Title: MOH/JICA Health Svstem Strengthening F	heet II (Revisior n Strenathenina	of Plan of Operation) Proiect	Version 3 (1st May 2017 -) Dated 17th November 201	7
Inputs		Plan 2016 2017 Астиан I П Ш Ш I I П Ш Ш	Monitorin	ס
Expert			lssue	Solution
Chief Advisor/QI Management System	Ac	Plan Actual Actual		
Assist Chief Advisor/QI Management System	AC	Plan Actual Actual		
5S-CaI-TAM (])		lan ctual		
5S-CQI-TQM (2)	A P			
Utilization of Medical Equipment	AC	Plan Actual Actual		
Maintenance of Medical Equipment		lam ctual		
Project Coordinator/Training Management		Plan Actual		
Equipment Project vehicles and equipment/materials necessary for		Plan		
project administration		Actual Plan		
Training in Japan		Actual Actual		
		Plan Actual		
In-country/Third country Training				
Tanzania KAIZEN TOT		Plan Actual Actual		
Activities Sub Activities		Plan 2016 2017 2017 2017 2017 2017 2017 2017 2017		
1. Supporting/supervising system for health infrastructure management of		ィー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	Achievements	Issue & Countermeasures
1-1 Establishment of foundation for the project and implementation				
1-1-1 [MOH] Establish TWG for the phase 2 project		Plan The K cond.	The kick-off meeting of the project was conducted and the project implementation structure and the Project Steering Committee were established.	
1-1-2 [MOH] Select focal persons for 5S, user training (UT), and medical equipment (ME) maintenance	C C	Plan Plan Column	The Project Implementation Teams (5S- CQI-TQM, UT and ME maintenance) were established.	
1-1-3 [TWG] Develop TORs for members of TWG and action plans for implementing the project		Plan Work Work Water Andread Andre	Work Plans based on the situation analysis were developed.	
1-1-4 [TWG] Conduct baseline survey	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Plan Situat Actual Actual	Situation analysis for all of the targeted hospitals and workshops was conducted.	
1-1-5 [TWG] Update and/or create manuals, handbooks, guidelines, and monitoring tools for dissemination	0 0 0 0 0		Concept note of CQI Guidelines and 5S- C CQI-TQM Facilitators Guidebook were developmed	CQI Guidelines and 5S-CQI-TQM Facilitators Guidebook will be drafted in the tarm 2 of the Protect
,				In the territ 2 of the Project. Since definition of national show case
1-1-6 [TWG] Define criteria for national show case and review a national show case(s)		Actual		should follow QI framework, it is necessary to discuss within QAID in consideration of HFQAP.
1-1-7 [TWG] Review existing supervision system of MOH.		Plan Actual Conductor	Field test of Modified 5S M&E tool was conducted.	Supervision system will be discussed within QAID in consideration of
1-1-8 [IWG] Imegrate components of 55-CQI-I QM, UI, and ME maintenance to the supervision system 1.0 Transmot and the supervision system				HFQAP.
1-2 Training and Knowedge Snaming 1-2-1 [TWG] Conduct refresher training for national 5S facilitators*			Refresher Training of 5S National Facilitators was conducted.	
1-2-2 [TWG] Conduct training of trainers for 5S-CQI-TQM especially customized for CQI		Plan Train Actual	Training of New national 5S-CQI-TQM facilitators was conducted.	
1-2-3 [TWG] Organize opportunities to share good practices and lessons learned such as study tours and QI competition	0 0 0		Fort Portal WS was awarded as best WS 17th WS Performance Review Meeting. And Lira and For Portal WS were awarded as best WS in 19th WS Performance Review Meeting. •Two poster concerning 5S presented in 4th National Quality improvement Conference.	
1-3 Implementation of activities, and monitoring and evaluation, and refine the second of the second of the second on PDCA cycle	ections	Plan		
1-3-1 [1 W of Impernent an action plan based on PUCA cycle. 1-3-2 [TWG] Conduct supervision which is integrated into the existing system	0		5S M&E was conducted.	
1-3-3 [TWG] Hold meetings at least bi-monthly with the project team	 O O		Project Steering Committee meeting was conducted in October.	Steering Committee meeting was not conducted regularly due to difficulty of arrangement.
1-3-4 [TWG] Conduct a review meeting on established system in MOH	000000000000000000000000000000000000000	Plan Actual Actual		Results of Project Steering Committee
1-3-5 [TWG] Make use of review of activity 1-3-4 for institutionalization of the system and methodologies, and reflection to the health sector policy/plan	0	Plan Plan Actual Actual	> L	will be discussed in Top Management meeting of MOH.
1-3-6 [TWG] Conduct an end-line survey	0	Plan Actual Actual		

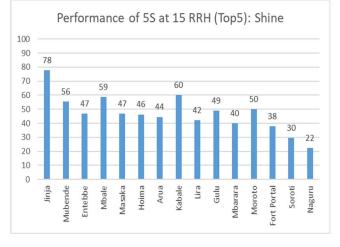
t Monitoring She	ion of Plan of Operation)	Version 3 (1st May 2017 -) Dated 17th November 2017		
Activities Sub-Activities	ПО PTO IECT Plan 2016 2017 Actual I I I I I I I V	Achiavaments	Issue & Countermeasures	
 Implementation mechanism of the phase 1 targeted hospitals aim quality improvement is established to function as leading cases bas 2-1 System development and implementation 	aimed at CQI level for resource management and based on the outcomes of the phase 1.			
2-1-1 [Phase 1 target hospitals] Revitalize and/or strengthen 0 0 0 0 function of quality improvement team (QIT) and work improvement team (WIT) 2-1-2 [Phase 1 target hospitals] develop action plans of WITs at each phase 1 target hospital 0	Plan Quality Actual Mature Actual Mature Plan Mature Plan Plan Plan Masolt	Quality Improvement Training in Kabale RRH for strengthening QIT/WIT activities was supported by the Project experts. The Project experts visited target hospitals for supervision of activities.		
2-1-3 [Phase 1 target hospitals] Hold periodic meetings of QIT 2-1-4 [Phase 1 target hospitals] Implement activities aiming at CQI O with proper usage and maintenance of ME in collaboration with UT and ME maintenance activities		Maintenance Training on Specialised Medical Equipment was conducted. User trainers were invited to the training.		
2-2 Training 2-2-1 [TWG] Conduct leadership and management training for 2-2-1 [TWG] management staff of targeted hospitals 2-2-2 [TWG] 2-2-2 [TWG] 2-2-4 [TWG] 2-2 [TWG] 2-2 [TWG] 2-2 [TWG] 2-2 [TWG] 2-2	Plan Actual Plan	The Leadership Improvement Seminar was conducted. Training of New national 5S-CQI-TQM		
2-2-3 [TWG] Conduct 5S CQI training to hospitals with high level 0 0 0 0 harden of 5S-CQI-TQM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		COI training was conducted. COI training was conducted. Refresher and Management Training for		
2-2-4 [1 WO] conduct entenent training for regional user trainers 2-2-5 [User trainers] Train staff of their hospitals on how to use ME on the job training basis	Actual Contract of the second	ser Trainer was conducted. vision of UT was conducted three		
3. Foundation for implementation mechanism of the phase 2 targeted quality improvement is introduced and established.				
3-1 System development and implementation 3-1-1 [TWG] Support target hospitals to establish and/or strengthen OOOO	Plan			
quality improvement team (QIT) 3-1-2 [TWG] Support target hospitals establish and/or strengthen work improvement team (WIT) 3-1-3 [TWG] Support target hospitals to hold OIT periodic meetings	Actual Element Plan Plan Plan Plan Plan Plan	Following up visit to the Poor -performed Hospitals was conducted.		
		Maintenance Training on Specialised Medical Equipment was conducted. User trainers were invited to the training.		
3-2 Training 3-2-1 [TWG] Conduct leadership and management training for OOOO	Plan The Le Was of Was	The Leadership Improvement Seminar was conducted.		
3-2-2 [National 5S facilitators] Conduct training of trainers (TOT) on 5S-CQI-TQM for regional 5S facilitators of phase 2 targeted hospitals		 55 training for poor-performed hospital was conducted. 55 training for district level and PNFP was conducted. 		
3-2-3 [Regional 5S facilitator] Conduct 5S-CQI-TQM training for O O staff of phase 2 targeted hospitals 3-2-4 [Regional user trainers trained phase 1 project] Conduct TOT O	O Plan Col transmission trandinitransmission <th td="" transmissintransmissi<=""><td>CQI training was conducted. TOTs for P2 User Trainers were</td><td></td></th>	<td>CQI training was conducted. TOTs for P2 User Trainers were</td> <td></td>	CQI training was conducted. TOTs for P2 User Trainers were	
regarding UT for the phase 2 targeted hospitals 3-2-5 [User trainers] Conduct UT on ME		conducted. Supervision of UT was conducted three times.		
3-2-6 [User trainers] Train other staff of RRHs on how to use ME on the job training basis	Actual	Supervision of UT was conducted three times.		
 4. ME maintenance and management capacity of workshops (Wo) at 4-1 [TWG] Conduct leadership and management training for workshop managers including inventory data analysis 	Plan Actual Actual	The 1st Leadership and Management Training for Workshop Managers and Senior Technicians of Regional Medical Equipment Maintenance Workshops were conducted.		
4-2 [TWG] Conduct training for Workshop (WSs) staff on ME		Maintenance Training on Basic Medical Equipment was conducted.		
4-3 [TWG] Conduct training for core staff of the WSs on basics 0 about specialized ME 4-4 [TWG] Strengthen support system of the CWS for other 0 0	Plan Mainte Actual Mainte Actual Mainte Plan Mainte	Maintenance Training on Specialized Medical Equipment was conducted. Support supervision to RWS was		
4-5 [TWG] Support WSs to develop a management system for O		Controucted. • The Project expert participated in the 17th, 18th and 19th WS Performance serview Meeting and analysed medical		
Duration / Phasing		ment inventories.		
Monitoring Plan	Plan 2016 2017 Actual I	Issue	Solution	
Joint Coordinating Committee Set-up the Work Plan of Operation	Plan The 2r Actual Set-up Plan Actual Actual	The 2nd JCC was conducted in October. Set-up the Work Plan of Operation was Japane delayed.	Japanese experts will discuss the plan with JICA HQ.	
Submission of Monitoring Sheet Monitoring Mission from Japan				
Joint Monitoring Post Monitoring	Plan Actual Plan Actual Plan Actual A			
Reports/Documents				
Project Completion Report				
	Plan Actual Plan Actual			

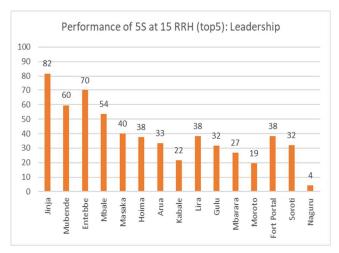
Attachment III 5S baseline scores

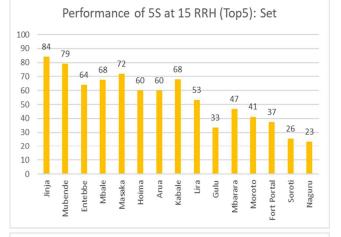


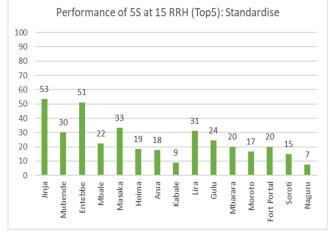












Attachment IV Tables and figures User training activities

I	First ToT Target Equipment	Sec	ond ToT Target Equipment		Next Phase Target Equipment
No.	Name of Equipment	No.	Name of Equipment	No.	Name of Equipment
1	Autoclave	11	Weight scale	20	Fetal Doppler
2	Boiler	12	Resuscitator	21	Vertical Autoclave
3	Table top autoclave	13	Recovery bed	22	Diathermy
4	O2 Cylinder set	14	Pulse Oximeter	23	Glucometer
5	Oxygen concentrator	15	MVA	24	Patient monitor
6	Vacuum Extractor	16	Infant warmer	25	Defibrillator
7	Operating Table	17	Infant Incubator	26	Ultrasonography
8	Nebulizer	18	Hot Air Oven		
9	Suction machine	19	ECG		
10	Blood Pressure machine				

Table 1: Target Medical Equipment

Figure 1: Results of Pre- and Post-test for P2 User Trainer ToT-2

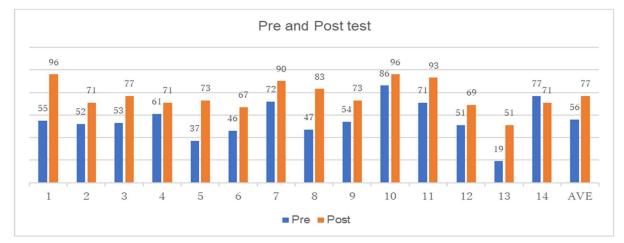


Figure 2: Results of practical test for P2 User Trainer TOT-2

Trainer	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hospital Name	Gulu	Gulu	Fort Portal	Fort Portal	Jinja	Jinja	Naguru	Naguru	Mubende	Mubende	Mbarara	Mbarara	Soroti	Soroti
Score	84%	87%	88%	87%	86%	86%	87%	74%	90%	92%	89%	87%	82%	92%

Date	Hospital	Japanese expert, P1 User Trainer (Trainer)	Name of User Trainer (Trainee)	Larget Equipment		Items supported by the hospital and/or WS
6/19	Jinja	Hiruma	Nakalembe Molly Agwang Joyce	Pulse Oximeter, Boiler, O2 Cylinder set, Suction machine	20 (0)	-Nil
6/20	Soroti	Hiruma	Epeduno Gabriel Akongo Agnes	O2 Cylinder set, Table top autoclave, Oxygen concentrate, Boiler	25 (3)	-Refreshment (WS) -Stationery (hospital)
6/21	Gulu	Hiruma	Acayo Agnes Lilian Oxygen concentrate, Suct Atim Esther Stella machine, Nebulizer, Autocla		22 (6)	-Refreshment (hospital)
6/27	Mubende	Hiruma	Halima Adam Mirembe Violet	Suction machine, Table top autoclave, Autoclave, Infant warmer	19 (0)	-Refreshment (hospital)
6/28	Fort Portal	Hiruma	Atugonza Rita Maureen Najjiugo Lydia	Nebulizer, Infant warmer, Suction machine, O2 Cylinder set	39 (0)	-Refreshment (hospital)
6/29	Mbarara	Hiruma	Aryeija Justus Tumugumye Rhoda	Weight scale, Recovery bed, MVA set, BP machine	22 (2)	-Refreshment (hospital)
7/7	Naguru	Hiruma	Basemera Kevin Mulwanyi Fredrick	Autoclave, Oxygen concentrator, O2 Cylinder set, Weight scale,	22 (2)	-Refreshment and stationery (hospital)

Table 2: First Support Supervision

Table 3: Second Support Supervision

Date	Hospital	Japanese expert, P1 User Trainer (Trainer)	Name of User Trainer (Trainee)	Target Equipment	Participant (WS staff)	Items supported by the hospital and/or WS
7/10	Jinja	Hiruma	Nakalembe Molly Agwang Joyce	Recovery bed, Infant warmer ECG, Oxygen concentrators	15 (0)	-Nil
7/11	Soroti	Hiruma	Epeduno Gabriel Akongo Agnes	Pulse Oximeter, Nebulizer BP machine, Resuscitator	20 (3)	-Refreshment (cash)(WS)
7/12	Gulu	Hiruma	Acayo Agnes Lilian Atim Esther Stella	Infant Incubator, Resuscitator Pulse Oximeter, O2 Cylinder set	18 (5)	-Refreshment (hospital)
7/18	Mubende	Hiruma	Halima Adam Mirembe Violet	Oxygen concentrators, Nebulizer MVA, ECG	22 (1)	-Refreshment (WS)
7/19	Fort Portal	Hiruma	Atugonza Rita Maureen Najjiugo Lydia	Hot Air Oven, Pulse Oximeter Autoclave, Operating Table	29 (3)	-Refreshment (hospital)
7/20	Mbarara	Hiruma	Aryeija Justus Tumugumye Rhoda	Recovery bed, Autoclave Nebulizer, Oxygen concentrators	13 (1)	-Refreshment (hospital)
7/21	Naguru	Hiruma	Basemera Kevin Mulwanyi Fredrick	ECG, MVA Suction machine, Infant Incubator	34 (4)	-Refreshment and stationery (hospital)

Date	Hospital	Japanese expert, P1 User Trainer (Trainer)	Name of User Trainer (Trainee)	Target Equipment	Participant (WS staff)	Items supported by the hospital and/or WS
8/28	Gulu	Hiruma, Sr.Alezuyo Janet Agoma, Mr. Adriko Innocent	Acayo Agnes Lilian Atim Esther Stella	Adult weighing scale, Infant warmer, MVA, BP Machine,	17 (6)	-Refreshment (hospital)
8/29	Soroti	Hiruma, Sr.Lukia Kabitanya , Sr.Aciro Julia	Epeduno Gabriel Akongo Agnes	MVA, Weighing scale Infant Incubator, Infant warmer	19 (2)	-Refreshment (cash)(WS)
8/30	Jinja	Hiruma, Sr. Akello Christine Okeng. Mr. Okwir John Van	Nakalembe Molly Agwang Joyce	Nebulizer, Infant Incubator, Autoclave, Resuscitator,	19 (1)	-Refreshment (hospital)
8/31	Naguru	Hiruma, Sr. Anyeko Okono Evelyn Sr. Mujalasa Christine Reita	Basemera Kevin Mulwanyi Fredrick	BP machine, Pulse Oximeter, Nebulizer, Recovery bed,	27 (2)	-Refreshment (hospital)
9/5	Mubende	Hiruma, Sr. Kabajuni Sarah, Sr. Katusiime Constance	Halima Adam Mirembe Violet	Recovery bed, Resuscitator O2 Cylinder set, Pulse Oximeter	21 (0)	-Refreshment (hospital)
9/6	Fort Potal	Hiruma, Sr. Byarugaba Alison, Sr. Tushemereirwe Justine A nne	Atugonza Rita Maureen Najjiugo Lydia	MVA set, Resuscitator Patient Monitor, BP machine	43 (3)	-Refreshment (hospital)
9/7	Mbarara	Hiruma, Sr. Namuddu Joanita, Sr. Musoke Prossy	Aryeija Justus Tumugumye Rhoda	O2 Cylinder set, Resuscitator Vacuum Extractor, Pulse Oximeter	29 (1)	-Refreshment (hospital)

Table 4: The 3rd Support Supervision

Figure 3 - 9: Evaluation results for training and after Support Supervision 1 to 3.

(There was improvement in knowledge of using of equipment)

Questions

- 1. Do you understand the purpose of use of medical equipment: Purpose
- 2. Do you know the safekeeping (location) place of the medical equipment: Safe location
- 3. Can you operate the medical equipment: Operation.
- 4. Can you do routine care of medical equipment: Routine care
- 5. Do you understand a method of how to manage faulty medical equipment: Faulty equipment
- 6. Do you know where to keep medical equipment after use: Storage

7. Do you understand how to handle medical equipment when it is not working: Mismanaged equipment

8. Do you know how to safely use medical equipment: Safety Usage

9. Can you use the medical equipment before today's training with no doubt: Training ability All answer is yes-no question

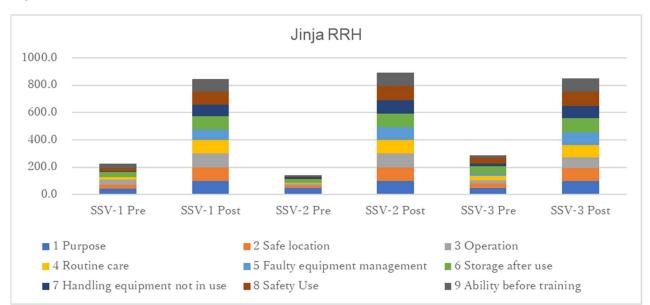
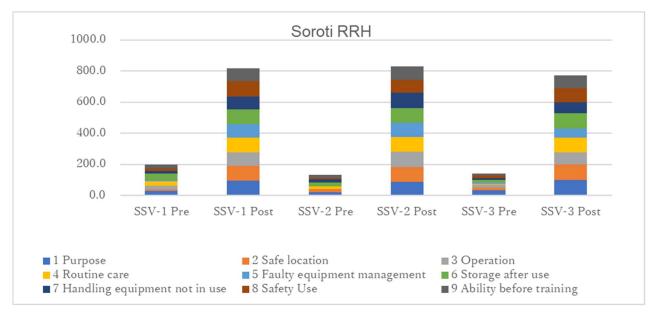


Figure 3

-Jinja RRH performance indicates that before pre-test done, performance was low, but after training it improved when post-test was done.



-Soroti RRH performance of pre- and post-test for the three support supervisions indicate low performance in pre-test and improvement in post-test except for the item of Faulty equipment which was not well performed in the 3rd SSV post-test.

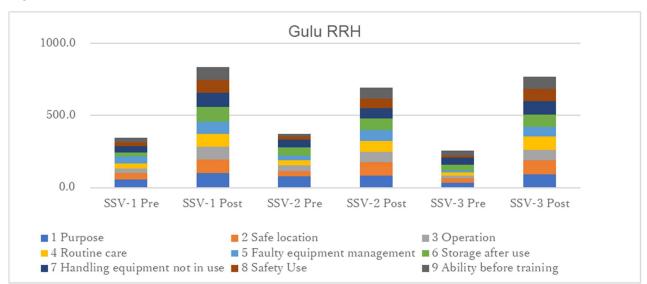
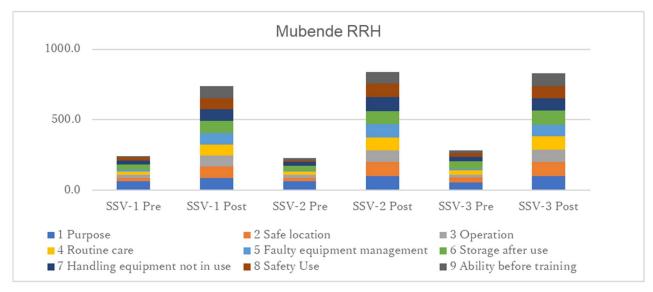


Figure 5

- Gulu RRH indicated that performance was constantly good for both pre- and post-test.

Figure 4





- Mubende RRH performance indicated good performance in post-test.

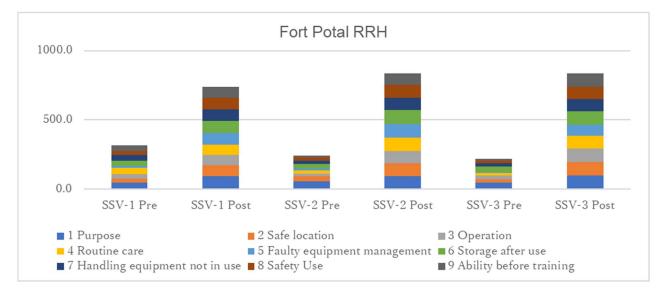
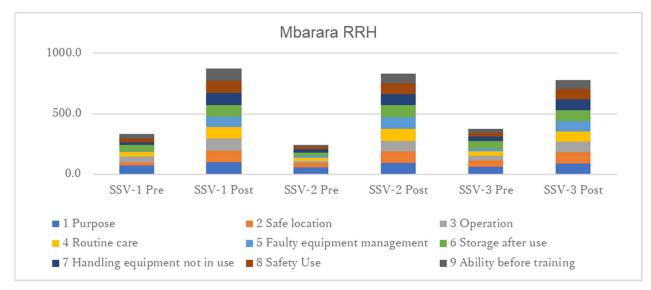


Figure 7

-Fort portal RRH training indicates that good performance was exhibited in pre-test and post-test.





-Mbarara RRH training indicates good performance during pre-test and post-test for participants.



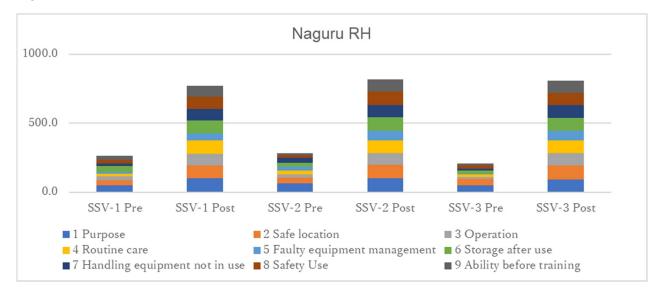
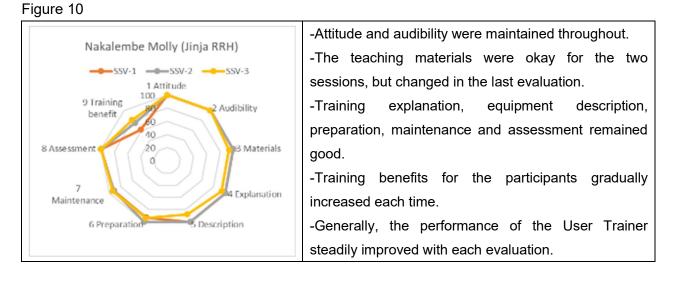
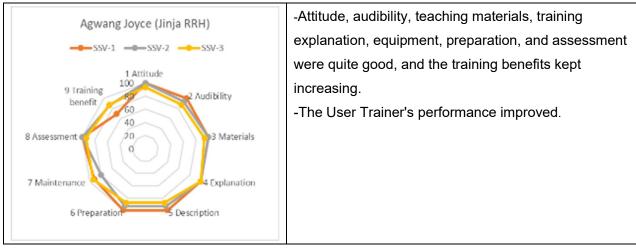


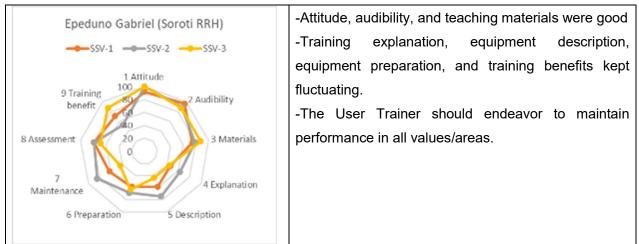
Figure 10 - 23: User trainer Evaluation by a participant Questions:

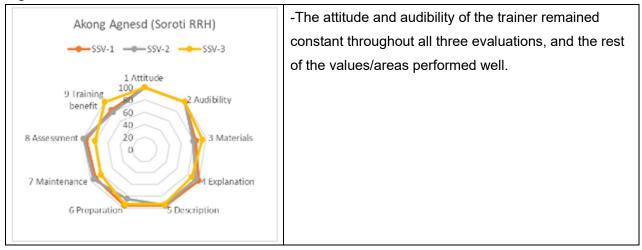
- 1. Attitude of the trainer: Attitude
- 2. The volume of voice of the trainer: Audibility
- 3. The teaching materials used by the trainer: Teaching materials
- 4. Trainer's content explanation: Training explanation.
- 5. Trainer's equipment explanation (what equipment, type, parts and model): Equipment description
- 6. Trainer's pre-operation explanation (how equipment was): Equipment preparation
- 7. Trainer's explanation on maintenance (immediate and routine care): Maintenance
- 8. Please assess the training carried out by the trainer: Assessment
- 9. What have you benefited from the training: Training Benefit

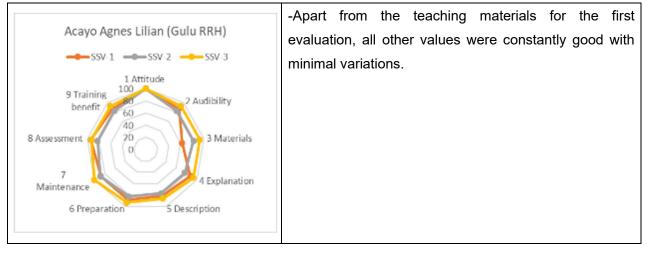




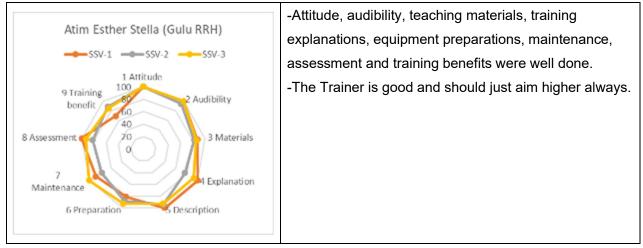


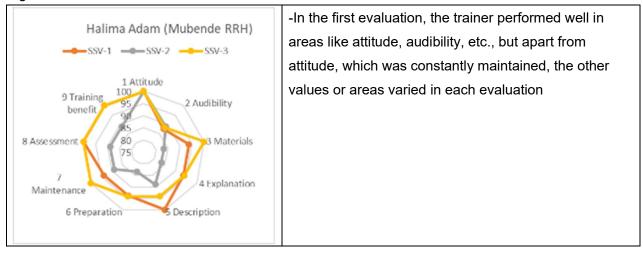


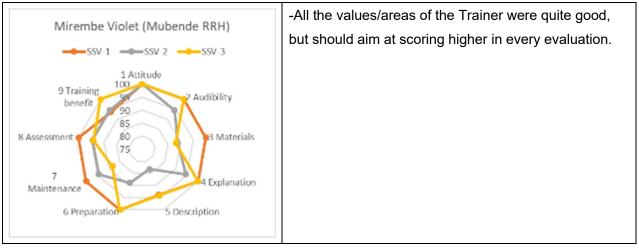




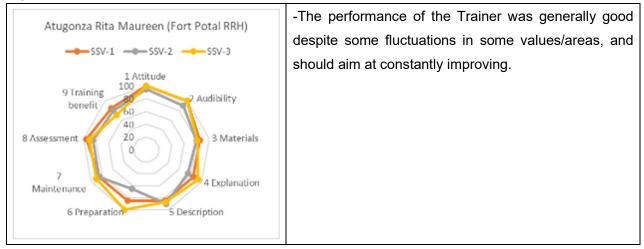












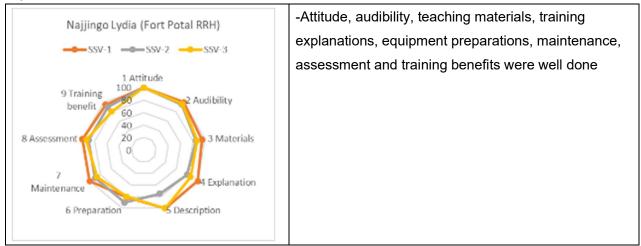
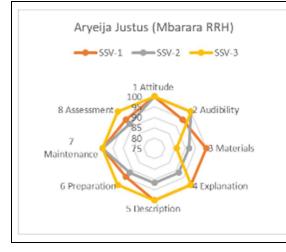
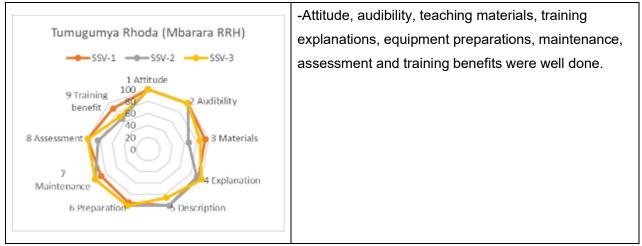


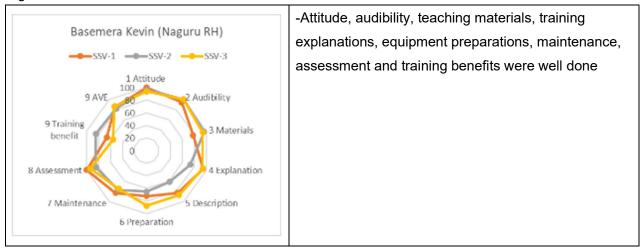
Figure 20

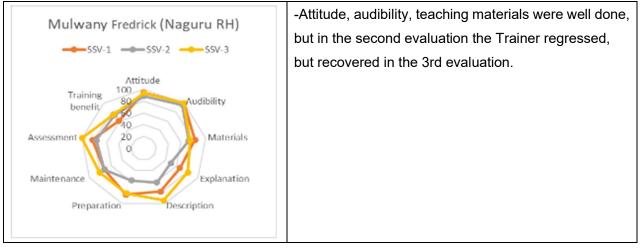


-Attitude, audibility, teaching materials, training explanations, equipment preparations, maintenance, assessment and training benefits were well done -The Trainer was able to improve in every aspect after each evaluation.









Attachment V

Performance Review Assessment of Reginal Workshops Aug. – Sept. 2017

Per	formance Review Assessment of Scoring Criteria: 3: Good performance, 2: Fa				•	Aug	Sep. 2	2017			55-CO		וֹנ <mark>אַ</mark>	CA
No	PERFORMANCE INDICATORS	Central	Mbale	Soroti	Lira	Gulu	Arua	Hoima	Fort Portal	Kabale	Mube nde	Moroto	Jinja	Average score
A)	Staffing level in WSs	3	1	3	3	2	2	3	3	3	3	2	2	2.5
B)	Is Workshop Budget well released?	2	1	3	3	1	3	2	2	3	1	No data	No data	2.1
C)-1	Are Job cards and Complaint forms properly used?	2	2	2	3	2	2	1	3	3	2	2	1	2.1
C)-2	Is "Framework Contract" used for purchasing spare parts?	3	3	3	2	1	3	2	3	2	3	1	1	2.3
C)-3	Is Planned Preventive Maintenance conducted?	2	2	1	3	1	1	2	3	2	2	2	1	1.9
D)-1	Periodical update of equipment inventories	3	2	2	3	2	1	2	3	3	3	1	1	2.2
D)-2	Is inventory data used for planning purposes?	2	2	2	2	1	2	2	2	2	2	1	1	1.8
E)-1	Making Work Plans properly	2	2	3	3	2	2	1	2	2	3	2	1	2.1
E)-2	Frequency of routine maintenance visits	3	2	3	3	2	3	2	3	3	3	2	1	2.5
F)	Timely submission of Quarterly Reports	3	2	3	3	2	3	2	3	3	3	2	1	2.5
G)	Is a Regional Workshop well equipped? (PC, printer, vehicle and tools)	3	2	1	3	3	3	3	3	3	2	2	1	2.4
H)	Progress of 5S implementation in WSs	1	2	2	2	2	3	2	3	2	1	1	1	1.8
TOTAL (Full-mark:36)		29	23	28	33	21	28	24	33	31	28	18	12	26.9
TOTAL % (score/36 x 100)		81%	64%	78%	92%	58%	78%	67%	92%	86%	78%	50%	33%	71%
	Previous TOTAL % (score/36 x 100)	72%	42%	50%	81%	56%	53%	53%	83%	69%	44%	47%	-	59%
	Increment (%) from previous score	9%	22%	28%	11%	2%	25%	14%	9%	17%	34%	3%	-	15.7%

Attachment VI Performance in Target Facilities

		Mbale RRH/WS	Masaka RRH	Entebbe GH	Hoima RRH/WS	Kabale RRH/WS	Arua RRH/WS	Lira RRH/WS	Moroto RRH/WS	Soroti RRH/WS	Jinja RRH/WS	Gulu RRH/WS	Fort Portal RRH/	Mbarara RRH	Mubende RRH/WS	Naguru	Tororo	Central WS
50	1. Number of areas/units implementing 5S activities (XX areas out of YY)	15	26	26/28	15	16	24	15	9	11	23	11	10	5	17	7	18	
55	activities (XX areas out of YY) 2. Average score of M&E conducted by NF (%)	55	52	60	46	44	45	44	35	28	76	36	34	36	63	18	46] /
	3. Number of CQI cases completed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0] / [
	Number of user trainers	1	2	1	2	2	2	3	2] / [
	Number of user traning	2	4	3	1	2	4	4	1									
	Number of participants attended at user training																	
	June 201		42	22	0	0	27	4	0									
UT	July 201		43	9	20	32	15	6	63									
	August 201		52	6	0	33	24	18	0									
	September 201		14	0	0	0	27	8	0									
	October 201																	_/ I
	November 201																	
	1, Number of participants attended at leadership	D I		1 /	1										1		/	
	and management training including 5S-CQI 2. Number of participants attended at	3	_ /	/	4	4	4	4	4	4	2	4	4	_ /	4	/		14
			/											/		/		
	maintenance training on basic medical		/											/		/		
	equipment 3. Number of participants attended at first-line	1			0	1	1	2	1	1	1	1	2		0			1
	3. Number of participants attended at first-line																	
	maintenance training on specialized medical		/											/				
	equipment 4. Number of support supervision visits	3			3	3	3	3	3	2	4	2	3		1			9
			/	/										/		/		
	including situation survey by HID/Central WS &		/											/		/	/	
	JICA expert	2	/	/	3	2	2	2	1	2	1	2	2	/	3	/	/	-
	5. % of Workshop performance scores (12		/	1/										/		//	/	
	indicators, current score/36 full-mark x 100)	64%	/	/	67%	86%	78%	92%	50%	78%	33%	58%	92%	/	78%	V	V	81%

To CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 4 (Term : 24th October, 2017 – 30th June, 2018)

Name: Dr. Olaro CharlesTitle: Project DirectorName: Hiroshi TaseiTitle: Chief AdvisorSubmission Date: 31st July 2018

I. Summary

1 Progress and Achievements of the Project

1-1 Progress of Inputs

[The Japanese side]1-1-1 Dispatch of JICA Experts

The Japan International Cooperation Agency (JICA) Experts were dispatched on schedule. The list of the Experts is shown in the table below.

Name 1		2017	7				2018				
		11	12	1	2	3	4	5	6	(days)	
Hiroshi Tasei Chief Advisor/QI Management System①		21					67			88	
Shizu Takahashi Vice Chief Advisor/QI Management System②							2	22		22	
Naoki Take 5S-CQI-TQM①							28			28	
Yujiro Handa 5S-CQI-TQM②										0	
Yasuhiro Hiruma Utilization of Medical Equipment							69			69	
Naoki Mimuro Maintenance of Medical Equipment							69			69	
Emi Onosaka Project Coordinator/Training Management							69			69	

1-1-2 Delivery of the 5S tool kits

The JICA Experts delivered 5S tool kits to help implement the 5S activities at the target facilities. The contents of the tool kit include: a carrying bag with several types of stationary such as markers, pens, scissors, tapes, etc. All target hospitals, District Health Offices (DHOs) and Workshops (WSs) received the tool kits except Masaka Regional Referral Hospital (RRH), Moroto RRH and Naguru Referral Hospital (RH).

[The Uganda side]

1-1-3 Assignment of Counterparts

- 16 National 5S-CQI-TQM Facilitators implemented the 2nd 5S Monitoring and Evaluation (M&E) in target hospitals.
- (2) Project Manager visited Kabale RRH for supervision.
- (3) Four (4) former Project User Trainers, also called Senior User Trainers, carried out the refresher training for User Trainers.
- (4) A technician of the Central WS (CWS) facilitated the small group training on the equipment inventory database software, called New Order for Managing Anything Data (NOMAD), operation and inventory data analysis.
- (5) Infrastructure Department (HID/MOH) carried out the support supervision for Regional Workshops (RWSs).

1-2 Progress of the Activities

1-2-1 Activities of the Output 1

(1) Kickoff meeting for Project Implementation members

Related to activity	Planned in May 2018
1-2-1/1-2-2	
Details	• Date and Venue: 8th May 2018, third level board room at Ministry
	of Health, Uganda (MOH)
	 Participants: Six (6) from MOH, seven (7) from JICA Project and
	three (3) from JICA Uganda Office
	Chaired by: Commissioner, Quality Assurance and Inspection
	Department (QAID)
	Objectives:
	(1) Explanation of delay to start Project Term 2
	(2) Discussion on Project priority activities (Attachment-III)
	(3) Presentation of Work Plan and reporting format (Attachment-
	IV) for Steering Committee meeting
	(4) Discussion of necessary funds for Project activities
Achievement	 All participants understood the causes of delay of Project Term 2.
	 All members discussed and agreed to the prioritized activities for
	smooth implementation of the Project.
	 All members understood the detail of necessary funds for activities
	of all Project components.
Way Forward/	• The Project Implementation Team (PIT) shall submit necessary
Challenges	reports to Project Manager before Steering Committee meeting

• All members agree it is necessary to hold Steering Committee
meeting at the end of June 2018 to confirm the Ministry budget plan
for the next financial year.

(2) Steering Committee Meeting

Related to activity	Planned in May 2018
1-3-1/1-3-2	
Details	• Date and Venue: 29th May 2018 at the office of the Commissioner
	Clinical Services Department
	• Participants: Six (6) from MOH, three (3) from JICA Project and
	one (1) from JICA Uganda Office
	Objectives:
	(1) Approval of Work Plan and reporting format for Steering
	Committee meetings
	(2) Confirmation of necessary funds for Project activities and
	regulation of requisition of activity funds in MOH
Achievement	 The PIT leaders were advised to study and understand the Work
	Plan and budget for activities and report to Project Manager.
Way Forward/	 Work Plan and reporting format for Steering Committee meeting
Challenges	are approved.
	 The Project budget for the next quarter shall be discussed at the
	beginning of each quarter.
	 The PIT shall apply for funds for Project activities whether or not
	implemented.

1-2-2 Activities of the Output 2

(1) Development of 5S-CQI-TQM guidelines

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Related to activity	Planned in May - December 2018
2-1/2-2/2-3	
Details	 The draft guidelines were developed by JICA Experts and shared
	with QAID in May 2018.
Achievement	 In the draft, the criteria of the national showcase of 5S-CQI-TQM
	(Activity 2-2) were clearly defined, and the qualifications, roles and
	responsibilities of National 5S-CQI-TQM Facilitators at all levels
	(Activity 2-3) were clearly defined.
Way Forward/	The review process is yet to commence for finalization and

Challenges	approval of the document from MOH.
	 QAID proposed to scrutinize the draft of guidelines at "the infection
	prevention and control workshop" in July 2018. Holding of this
	workshop will depend on funding from World Health Organization.
	The Project will prepare for submission of the document for
	scrutiny.

Related to activity	Planned in December 2017
2-2/2-5	
Details	 Date and Venue: 8th December 2017 at Kampala
	 Participants: 17 National 5S-CQI-TQM Facilitators
	Objectives:
	(1) To share the results of the 1st M&E
	(2) To review the methodology of M&E
Achievement	• Gaps on how to score the section on waste segregation, posters
	and notices on the wall and others were identified by the
	facilitators.
	• An issue was raised on scoring 5S performance for the same units
	and departments across all the hospitals to ensure fairness in
	comparison.
Way Forward/	• Participants agreed it was necessary to hold another meeting
Challenges	before the 2nd M&E.

(2) National 5S-CQI-TQM Facilitators meeting on 5S M&E

(3) Kickoff meeting for National 5S-CQI-TQM Facilitators on M&E and supervision of 5S-CQI-TQM

Related to activity	Planned in May 2018
2-2/2-5/2-6/2-8	
Details	 Date and Venue: 17th May 2018 at Kampala
	 Participants: 15 National 5S-CQI-TQM Facilitators, three (3) from
	QAID and three (3) from Entebbe General Hospital (GH)
	Objectives:
	(1) To review the scoring criteria of 5S performance
	(2) To share the criteria on how to supervise 5S-CQI-TQM
	(3) To explain logistic procedures of M&E and supervision
Achievement	 Facilitators agreed to extend the period of M&E, which was initially

	• Facilitators reviewed the evaluation criteria for scoring the 5S					
	performance, the procedure and tools of supervision of 5S-CQI-					
	TQM.					
	• Facilitators agreed to assess five (5) departments for fair					
	comparison of the score of 5S performance: 1) operation theater,					
	2) maternity, 3) laboratory, 4) general store and 5) medical records.					
	 Facilitators understood the logistic procedures of M&E and 					
	supervision of 5S-CQI-TQM.					
Way Forward/	 Facilitators are to complete the M&E exercise by 15th June 2018. 					
Challenges	• Facilitators are to submit the followings data to the Project after					
	M&E: 1) Excel sheets compiling results of M&E for the hospital					
	management team/quality improvement team and work					

(4) 2nd M&E on performance of 5S

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Related to activity	Twice a year: every May and November
2-2	
Details	 National 5S-CQI-TQM Facilitators evaluated performance of 5S at
	the 14 RRHs and two (2) GHs in May – June 2018.
Achievement	 Submission of data to the Project is on-going.
Way Forward/	 Data will be analyzed, and feedback will be given by JICA Experts,
Challenges	a local consultant and 5S-CQI-TQM implementation team followed
	by the supervision with focus on challenges identified at the 2nd
	M&E.

(5) Supervision of 5S-CQI-TQM by Experts

Related to activity	Started from June 2018
2-6/2-8	
Details	 Apart from supervision by National 5S-CQI-TQM Facilitators, the
	JICA Experts (i.e. Chief Advisor and Assistant Chief Advisor) and
	a local consultant visited 11 target hospitals in May - June 2018.
	 The Project Manager, Chief Advisor and Senior Representative of
	JICA Uganda Office visited Kabale RRH on 21st June 2018.

Achievement	• Gaps were identifie	d among hospitals on progress of 5S-CQI-
	TQM, but emergin	g CQI activities (even small ones) were
	observed.	
	 The current situation 	n on 5S-CQI at the field was shared with the
	JICA Experts and JIC	CA Uganda Office.
Way Forward/	• There is still a chall	enge of proper understanding of the 5S-CQI
Challenges	among staff.	
	 It is necessary to clo 	sely communicate with National 5S-CQI-TQM
	Facilitators on sharin	g views of the progress for them to commence
	their supervision.	
	 Depending on finance 	cing by MOH, facilitators will supervise target
	hospitals by sharing	the results of M&E of 5S performance.
Fish-bone explana	tion in Kabale RRH	Small CQI board in Kabale RRH

1-2-3 Activities of the Output 3

(1) Development of User Training (UT) Manual/Guidelines

Related to	Planned in June 2018 - March 2019
Activity 3-1	
Details	 Date and Venue: 21st - 22nd June 2018 at Hoima RRH
	• Participants: one (1) JICA Expert, four (4) Senior User Trainers
	and 16 Phase 1 User Trainers
	Objectives:
	(1) To revise and modify the UT manual in accordance with the
	revised standards on sterilization
	(2) To coordinate information exchange for manual revision
	(3) To discuss formulation of trainer's guidelines
Achievement	 All participants agreed on revising the current manual and
	amendments were made.
	 All participants agreed on the following contents for developing the

	guidelines.	
	(1) Draft guidelines will be completed by the middle of the second	
	quarter of fiscal year (FY) 2018/2019.	
	(2) Draft guidelines will be authorized by Clinical Services	
	Department, HID/MOH and Nursing Department.	
Way Forward/	•Discussions of contents of UT guidelines with Clinical Services	
Challenges	Department, HID/MOH and Nursing Department are needed.	

(2) Refresher Training for User Trainer

Related to	Planned in June 2018.
activity 3-2	
Details	 Date and Venue: 18th - 22nd June 2018 at Hoima RRH Facilitators: Two (2) from MOH, one (1) from JICA Project, three (3) JICA volunteers and four (4) Senior User Trainers Participants: 16 Phase 1 User Trainers from the seven (7) RRHs and one (1) GH Objectives: (1) To enable Phase 1 User Trainers to review and plan for UT activities of the 26 medical equipment (For the list of target medical equipment see Attachment-V) (2) To gain the required training skills and teaching methods for the target medical equipment (3) To discuss and draft teaching materials for new target equipment (Infusion Pump and Syringe Pump)
	 (4) To discuss implementation, reporting and utilization of the budget from WS for UT activities (5) To learn how to use the inventory data for UT activities
Achievement	 The results of written test were 66% for pre-test and 88% for posttest on average. The average improvement was 22% compared with the pre-test, hence confirming the positive outcome of the training. The trainers were assessed on the practical test as reflected in the result which was 4.31(5.00 for full score) on average.
Way Forward/	 It is necessary for User Trainers to learn on their own.
Challenges	 User Trainers should strengthen collaboration with RWS.



(3) Support Supervision

Related to	Planned in September 2018 - May 2020.
activity 3-4	
Details	• The JICA Expert and Secretary carried out the following support
	supervisions for four (4) RRHs.
	(1) 18th May 2018 at Entebbe GH
	(2) 31st May 2018 at Masaka RRH
	(3) 4th June 2018 at Hoima RRH
	(4) 5th June 2018 at Lira RRH
	Objectives:
	(1) To interview on the training activity
	(2) To interview on the work plan for UT
	(3) To interview on the activity budget
	(4) To interview on relation and collaboration with WS activities
Achievement	• The capacity of User Trainers to formulate work plan, budget plans
	and reports was developed.
	• Good collaboration among User Trainers, the Hospital Directors
	and the WS Managers was acknowledged.
Way Forward/	• A standardized format for work plan, budget, and report writing is
Challenges	needed to improve efficiency in document preparation.

1-2-4 Activities of the Output 4

(1) Update and develop WS operation manuals, guidelines and monitoring tools (4-1)

Related to	Planned in May 2018 - December 2018
activity 4-1	
Details	 Existing WS Operation Manual published in December 2013 was
	revised in June 2018.

	 The supervision tools (templates of Support Supervision Report
	and CQI Action Plan) were developed in May 2018 and revised in
	June 2018. (For the draft templates see Attachment-VI)
	 The quick-reference users guide for the basic operation of
	NOMAD and inventory data analysis was drafted in June 2018.
Achievement	• The first process of the WS Operation Manual update was started.
	Some sections were identified to be updated, such as organization
	structure, management of maintenance work, supervision policy
	and annexes.
	 The supervision tools have already been used in the support
	supervision of May - June 2018.
	 The quick-reference users guide for NOMAD has already been
	used for the small group training and this guide will become a
	supplementary material of the existing WS Operation Manual.
Way Forward/	 These manuals and templates are updated as necessary for easy
Challenges	reference.

(2) Small group Training on NOMAD operation and inventory data analysis

Related to	Leadership and Management Training: Planned in March - April
activity 4-2	2019
Details	Date and Venue: 17th June 2018 at JICA Project Wabigalo office
	 Facilitators: A JICA Expert and one (1) technician of CWS
	 Participants: Five (5) technicians from Mbale WS and Jinja WS
	Objective:
	(1) To improve the skills of NOMAD operation and inventory data
	analysis as part of management training in Activity 4-2.
	• The program included basic operation of NOMAD system such as
	the system login, inventory data entry, data search, export
	inventory data in Excel, data analysis and insert pie chart.
Achievement	• This training was organized in response to the participants'
	request, and the allowance and transport costs were paid by each
	participant. It is a good example of proactive mind of technicians.
	• The assessment test was not carried out, but the skills of each
	participant have improved, judging from the practical sessions.
	• The draft quick-reference users guide was used in this training.
	This guide is also supportive for technicians to learn the basic skills

	of the mentioned topics.
Way Forward/	• Simultaneous login to NOMAD system is difficult due to poor
Challenges	Internet speed and different settings in each personal computer.
	For this reason, some exercises are demonstrated to a few
	participants, and the other participants will practice by themselves
	after returning to their stations, referring to the quick-reference
	users guide.

(3) Training in Maintenance of Basic and Specialized Medical Equipment

Related to	Basic Medical Equipment: Planned in October - November 2018	
activity 4-3 & 4-4	Specialized Medical Equipment: Planned in September - October	
	2018	
Details	• Due to interruption of the Project activities for a long time (October	
	2017 - April 2018), the survey of medical equipment requirement	
	for the training was conducted in all the WSs in May 2018 and	
	analyzed data in June 2018.	
Achievement	• 53 names of equipment to be prioritized in training were collected	
	from the 11 WSs.	
	• Prioritized equipment for the training was Ultrasound machine,	
	Patient monitor, Anesthesia machine, Ventilator, Infusion/Syringe	
	pump and so on. (For more information see Attachment-VII)	
Way Forward/	• Targeted equipment of the above-mentioned trainings will be	
Challenges	determined based on the survey results and long-term strategy of	
	HID/MOH.	
	• The training expenses for both basic and specialized medical	
	equipment shall be funded using the MOH budget secured for	
	"JICA Project" in the Clinical Service Department and the	
	HID/MOH individual budget. The details will be determined at the	
	Steering Committee meeting among the members concerned.	

(4) Support Supervision including preliminary questionnaire survey

Related to	Twice a year as planned. (Year-round activity.)
activity 4-5 & 4-6	
Details	• The MOH counterpart and the JICA Expert carried out the
	following support supervisions for 13 WSs including two (2) RRHs
	(Masaka RRH and Mbarara RRH), which had no functional RWSs

	to maintain madical equipment of lower backth facilities in the	
	to maintain medical equipment of lower health facilities in the	
	catchment area.	
	(1) 20th May - 2nd June 2018 at Jinja, Mbale, Soroti, Lira, Gulu,	
	Arua and Hoima	
	(2) 11th - 16th June 2018 at Kabale, Fort Portal, Mubende,	
	Masaka, and Mbarara	
	(3) 28th June 2018 at CWS	
	Objectives:	
	(1) Receive brief report on from WS Manager	
	(2) Review the WS performance and issues	
	(3) Team discussion of the priority areas	
	(4) CQI exercise (identify controllable issues to be solved by the	
	WS members, create CQI action plan of selected issues and	
	agree with all members to implement the action plan)	
	(5) Report the results to the Hospital Director/Administrator	
	 A preliminary questionnaire survey was conducted in May 2018 by 	
	e-mail to improve efficiency of the supervision. It was a total of 20	
	questions including human resources, budget, planning, process	
	of routine maintenance, inventory update, UT, 5S-CQI and so on.	
Achievement	 The supervision using CQI approach was newly introduced as 	
	planned. Each WS created one (1) or two (2) small CQI action	
	plan(s) and began working on problem solving by CQI approach.	
	(See Attachment-VIII for the list of the implemented small CQI	
	topics in each WS)	
	 The results of the survey were utilized for supervision, which 	
	helped to save time. (See Attachment-IX for details)	
	 It is confirmed that the maintenance service sticker has been used 	
	effectively and the sticker system has been standardized in most	
	WSs.	
Way Forward/	• The CQI Action Plan is implemented appropriately and new CQI	
Challenges	actions plan will be developed at the next supervision.	
	● Eng. Edward Kataaha; Principle Electrical Engineer will be	
	transferred back to the Engineering Department of Mulago	
	Hospital and the capacity of the PIT on Medical Equipment	
	Maintenance (ME) component will be affected.	
L		



(5) 20th WS Performance Review Meeting

Related to	Plan to hold the meeting at least twice a year. Year-round activity.		
activity 4-5			
Details	 Date and Venue: 8th June 2018 at Lira RRH Participants: Approximately 35 people including Hospital Directors, WS Managers, HID/MOH officials, development partners (Infectious Disease Institute (IDI), Regional Health Integration to Enhance Services (RHITES) and JICA Project) Objectives: (1) To give a brief presentation on WS performances, budgeting and planning by WS managers (2) To discuss the key issues and way forwards (3) To congratulate Lira WS receiving the Best Workshop Award Trephy for 2017 		
Achievement	 Trophy for 2017 This meeting has been the main yardstick platform for strengthening capacity of the CWS and HID/MOH as required by activity 4-5 as well as sharing knowledge and skills among the WSs required in activity 4-6. Facilitation for fuel and allowances for participants was funded from the respective budget of the WSs. This is a good case showing the ownership of MOH. Since the Hospital Directors have attended the meetings from February 2017, they were more likely to pay attention to medical equipment management. Through these meetings, the allocation of each WS budget has improved than before. The managerial skills such as reporting, budgeting, work planning 		
Way Forward/	 and team building of WS Managers have gradually improved. The Hospital Directors shall be taught about NOMAD system. 		

Challenges	 Targeted areas of each implementing partner will be clarified and 		
	harmonized.		
	 The equipment inven 	tory update must be carried out to be used	
	for performance-based financing.		
	 CQI activity shall be continued in each WS 		
	The next meeting sha	all be hosted in Hoima RRH in October 2018.	
WS Performance Rev board room	iew Meeting, Lira RRH	Handover trophy of the best WS award 2017 to Lira WS	
bearareen			

(6) Collaboration of a development partner "IDI" functionalizing equipment inventory update system

Related to	Year-round activity.		
activity 4-6			
Details	(1) Meeting on reactivating the equipment inventory database		
	software "NOMAD" system		
	 Date and Venue: 18th May 2018 at CWS, Wabigalo 		
	(2) Training of the basic operation of NOMAD system		
	 Date and Venue: 21st June 2018 at CWS, Wabigalo 		
	 Participant: one (1) JICA Expert 		
Achievement	● A JICA Expert learned NOMAD operation to teach WS		
	technicians.		
	• A JICA Expert drafted a quick-reference user guide for NOMAD		
	basic operation and inventory analysis to be used for training		
	sessions and mentoring the WS technicians under the		
	supervision.		
Way Forward/	• In order to activate NOMAD system, the HID/MOH, IDI and JICA		
Challenges	Expert will coordinate the training and/or mentoring session for the		
	WSs.		

• HID/MOH and IDI will discuss the challenges and resolutions of		
the NOMAD operation before starting the mentorship visit.		
 The new web-based NOMAD system will be started soon after the 		
end of the trial.		

(Other activities)

• The Project helped the counterpart select the appropriate candidate for JICA Knowledge Co-Creation Program "Medical Equipment Maintenance and Management" and supported the application process for the selected candidate in June 2018.

1-3 Achievement of Output

1-3-1 Output 1

[Project Steering Committee]			
Supporting/supervising system for health infrastructure management of all the RRHs is			
strengthened in the MOH.			
Current Indicators	Achievement		
(1) The Project Steering Committee	(1) The Steering Committee meeting was		
meeting is conducted every three	conducted in May 2018.		
months.			
(2) The results of integrated support	(2) Not achieved yet		
supervision conducted by PITs and			
the next quarter action plan			
developed from these results are			
shared and approved at every Project			
Steering Committee meeting.			
(3) The roadmap for incorporating the	(3) Not achieved yet.		
Project activities into the policy and			
systems of MOH is established and			
implemented by the Project Steering			
Committee.			
(4) The Project activities are successfully	(4) Not achieved yet.		
incorporated into the Ministerial Policy			
Statement of MOH.			

1-3-2 Output 2

[PIT: 5S-CQI-TQM]

Resource management and quality improvement activities are strengthened through CQI

approach in all RRHs.		
Current Indicators	Achievement	
(1) Score of module 1 (Leadership) and 6	(1) Data was not available yet.	
(Health Infrastructure) Health Facility		
Quality of Care Assessment program		
(HFQAP) Facility Assessment Tool		
- All RRHs mark (i) 5 points out of 8 as full		
mark for module 1 and (ii) 6 points out of		
10 as full mark for module 6.		
(2) Score of modified 5S M&E Sheet in 5S-	(2) 2nd M&E was still in progress.	
CQI-TQM Guidelines		
- All RRHs mark 33 points out of 54 as full		
mark at least two consecutive years.		

1-3-3 Output 3

[PIT: User Training]		
Proper utilization of medical equipment through UT is improved in all RRHs.		
Current Indicators	Achievement	
(1) There are at least two regional User	(1) There were two (2) regional User Trainers at	
Trainers at all RRHs.	13 RRHs.	
	(There was no User Trainer at Moroto RRH	
	and one (1) User Trainer at Entebbe GH.)	
(2) The number of UT conducted by	(2) The number of UT conducted in 2018 is not	
regional User Trainers is more than	available as of 30th June 2018, because the	
three as per year in every region.	definition of UT and User Trainers' scope of	
	work have not been clarified yet. These are	
	to be standardized in UT guidelines. The	
	number of UT is planned to be collected in	
	the third quarter of 2018/2019 after the	
	guidelines are launched.	
(3) The average of percentage of medical	(3) Baseline in October 2016: 5.1%	
equipment in status B at all RRHs is	The latest medical equipment inventory data	
not higher than 4%.	was planned to be collected and analyzed in	
	September - November 2018.	

1-3-4 Output 4

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[PIT: ME maintenance]		
ME maintenance and management capacity of WS are strengthened.		
Current Indicators	Achievement	
(1) The average increase of scores	(1) 29.8% (average score of 5 past trainings)	
between the pre-test and post-test is	There were no related activities in this	
at least 15%.	period.	
(2) The average of percentage of medical	(2) Baseline: 22.1% (C 17.9%+E4.2%)	
equipment in status C and status E at	The latest data is planned to be collected	
all RRHs is not higher than 15%.	and analyzed in September - November	
	2018.	

1-4 Achievement of the Project Purpose -

[Project Purpose]
Health infrastructure management at all the RRHs in Uganda is strengthened with the
initiatives of MOH.

Current Indicators	Achievement		
(1) CQI Process or QC Story	(1) CQI Process was not identified in target		
-The number of cases of CQI Process or	hospitals.		
QC Story amounts to more than three.			
(2) Good practice of small CQI	(2) Small CQI was not identified in target		
-All RRHs have at least one good	hospitals.		
practice of small CQI.			
(3) The average of percentage of medical	(3) Base line in October 2016: 65.1% (average)		
equipment in status A at all RRHs is			
higher than 70%.			
(4) Supervisions on 5S, UT, and ME	(4) Supervisions of WSs were conducted.		
which is integrated into the system of			
MOH in a consolidated way are			
implemented more than XX times.			

1-5 Changes of Risks and Actions for Mitigation

The Ugandan side did not allocate a budget for night allowances for the FY 2016/2017 (July 2016 - June 2017), thus causing the burden to be borne by the Japanese side. Furthermore, the amount of budget execution for the FY 2017/2018 was also small and this still meant the Japanese side had to cover the allowances for the activities for the support supervision activities to prevent stalling. However, regarding the CQI training on medical equipment maintenance that took place in September 2017, the costs for the training were borne by the Ugandan side enabling the activity to take place as scheduled.

At the beginning of Project Term 2 in April 2018, in the fourth quarter of the same financial year, the MOH budget had already been allocated for the activities within MOH, which made it difficult to secure a budget for the project activities at the beginning of the Term 2. In order to prevent delays in the progress of the project activities, MOH requested the Japanese side to bear the costs of the night allowances until the end of the fourth quarter (June 2018) as an emergency measure. Therefore, from the FY 2018/2019, the allowances for the project activities will be borne by the Ugandan. The Ugandan side clarified the availability of the MOH budget contribution quarterly at the Ministry budget meeting and the project Steering Committee meeting.

1-6 Progress of Actions Undertaken by JICA

1-6-1 Necessary Funds for Project Activities

JICA provided additional funds as an emergency measure for the Project activities in May and June 2018.

Activities	Date	Target	Description
Kickoff meeting for	17th May 2018	21 Participants	Night allowance
National 5S-CQI-			Safari allowance
TQM Facilitators on			
M&E and supervision			
of 5S-CQI-TQM			
2nd M&E on	24th May - 15th June 2018	16 National 5S-CQI-	Night allowance
performance of 5S		TQM Facilitators	
Supervision for ME	20th May - 2nd June and	PIT (ME)	Night allowance
WSs	11th - 16th June 2018		
User Trainer	18th - 22th June 2018	22 Participants	Night allowance
Refresher Training			

1-7 Progress of Actions Undertaken by the Government of Uganda

(1) The Permanent Secretary of MOH earlier promised to secure funds for the Project activities. There was need to establish a budget line for each component to estimate the total amount to be secured, and also discuss this issue of establishing security of funds in the Steering Committee meeting. Unless co-financing from MOH is materialized, the implementation plan should be reviewed. (2) A new staff was assigned as a member of the PIT (UT)

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

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

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.)

- (1) The project for the Improvement of Regional Referral Hospitals in Northern Uganda is a grant aid by the Japanese government. This project aims to strengthen hospital functionality by constructing facilities and providing medical equipment to northern Uganda hospitals (Arua, Gulu and Lira RRHs); and improve the quality and access to health services. JICA signed a grant agreement with Government of Uganda to provide grant aid of up to 2.86 billion yen for this project on 26th April 2018. The target facilities of the grant aid project include RRHs in this Project. It is expected to have a positive influence on health service delivery in the hospitals and the motivation of hospital staff to improve the workplace environment.
- (2) RHITES is a 5-year-project that has been operating since 2017, funded by United States Agency for International Development (USAID). RHITES supports the Government of Uganda and key stakeholders to increase availability and utilization of high quality health services. The purpose of this project is to secure services to support the design and implementation of comprehensive, integrated investment in regional health, HIV/AIDS, and nutrition assistance in the whole of Uganda.
- (3) Korea Foundation for International Healthcare (KOFIH) is a public affiliated organization of the Ministry of Health and Welfare, by the Republic of Korea. KOFIH has been active in Uganda since 2017 and implementing various project including establishing emergency medical service system and community health system with MOH. KOFIH targets Bukomansinbi district and Masaka region.

2 Delay of Work Schedule and/or Problems

2-1 Details, Cause

(1) Allocation of budget for project activities

MOH did not allocate night allowance for participants of the training and meeting organized by the Project in May and June in the fourth quarter of FY 2017/2018. The Japanese side supported the activities for the period of May and June 2018 as an emergency measure. Activities from the new FY 2018/2019 will be funded by MOH but if not properly provided, delay or cancellation of activities should be expected.

(2) Communication between counterpart and JICA Expert team It was difficult to communicate with Project Manager and PITs (5S-CQI-TQM, UT and ME) during Project Term 1. This is because the project counterparts have an excessive workload and handle implementation of another partners' project.

2-2 Action to be taken

- (1) A budget meeting should be held immediately among Steering Committee members after the budget allocation for the new fiscal year is decided. The Project cost management plan should be reviewed and formulated at the Steering Committee meeting.
- (2) The reporting format of Project activities for Steering Committee meetings was developed. It includes the Project indicators, achievement of activities and challenges in all target facilities. The format shall be submitted to Project Manager before Steering Committee meetings. In order to understand progress of the target facilities, supervision was conducted with Project Manager. As a result, it was useful to grasp the actual situation of the Project activities at the facilities and to increase the motivation of the facility staff.

3 Modification of the Project Implementation Plan

Modification of Project Design Matrix (PDM) v.0 was agreed between MOH and Japanese side and the Minutes of Meeting was signed on 31st January 2018.

II. Project Monitoring Sheet I & II as Attached

Attachment:

- I. Project Monitoring Sheet I
- II. Project Monitoring Sheet II
- III. Priorities in Project Term-2
- IV. Reporting format for Steering Committee
- V. Table for Targeted medical equipment for User Training
- VI. The draft templates of Support Supervision Report and CQI Action Plan
- VII. Survey of Medical Equipment Requiring for The Training
- VIII. List of the implemented Small CQI Topics in each WS
- IX. Results of Questionnaire Survey

Attachment-I: Project Monitoring Sheet I

Project Title: Project on Improvement of Health Service through Health Infrastructure Management (II) Implementing agency: Quality Assurance & Inspection Department, Directorate of Planning & Policy, Ministry of Health (MOH) (5S-CQI-TQM) Integrated Curative Services Department, Directorate of Clinical Services, MOH (Utilization of Medical Equipment) Infrastructure Department, Directorate of Clinical Services, MOH (Maintenance of Medical Equipment) Target Group: (1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe General Hospital (GH), Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, Moroto RRH, Mukuju HC IV, Tororo GH (2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital Period of Project: July 2016- July 2020 Target Site: Republic of Uganda Narrative Summary **Objectively Verifiable Indicators** Means of Verification Importan Clients' satisfaction level is improved to the target level. (XX) Health Management Information System (HMIS) Annual Health Sector Performance Report (AHSPR) Clients' waiting time of patients for consultation, testing, clinical examination, and prescription of drugs are reduced XX% Periodical monitoring reports by QITs at target hospitals ·Maintenance cost regarding medical equipment is decreased in · Supervision reports made by the steering committee for the project Quality of health care services at all the RRHs in Uganda is improved. XX%. Baseline and end-line data ·Quarterly regional workshop maintenance report Project Purpose 1) CQI Process or QC Story (1)Report of CQI Process (e.g. Documentation Journal as an example • Government budget The number of cases of CQI Process or QC Story amounts to of the format) deceased significantly (2)Report of small CQI or CQI support supervision tool more than three. ·Government budget (2) Good practice of small CQI (3) Medical equipment inventory be decreased signification -All RRHs have at least one good practice of small CQI. (4) Minutes of steering committee meetings Political situation in L 3) The average of percentage of medical equipment in status A (5) Reports of steering committee Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH. at all RRHs is higher than 70%. 4) Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times. Output 1 1) The Project Steering committee meeting is conducted every (1) Minutes of meeting of Project Steering Committee ·Personnel of counter hree months. 2) Ministerial Policy Statem and are not transferre (2) The results of integrated support supervision conducted by ·Policy related to heal Project Implementation Teams and the next quarter action plan management will not l developed from these results are shared and approved at every the presidential election 1. [Project Steering Committee] Project Steering Committee meeting Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the 3) The roadmap for incorporating the Project activities into the MÓH. oolicy and systems of MOH is established and implemented by the Project Steering Committee. (4) The Project activities are successfully incorporated into the Inisterial Policy Statement of Ministry of Health. Output 2 1)Score of module 1 (Leadership) and 6 (Health Infrastructure) (1)HFQAP Facility Assessment Tool HFQAP Facility Assessment Tool 2)5S M&E Sheet in 5S-CQI-TQM Guidelines 2.[Project Implementation Team: 5S-CQI-TQM] All RRHs mark (i) 5 points out of 8 as full mark for module 1 and (ii) 6 points out of 10 as full mark for module 6. Resource management and quality improvement activities are strengthened through CQI approach in all 2)Score of modified 5S M&E Sheet in 5S-CQI-TQM Guidelines RRHs Áll RRHs mark 33 points out of 54 as full mark at least two consecutive vears. Output 3 1) There are at least two regional user trainers at all RRHs. 1) Records on training of regional user trainers (2) The number of UT conducted by regional User Trainers is (2) Training records on user training conducted by user trainers more than three as per year in every region. Medical equipment inventory 3.[Project Implementation Team: User Training] (3) The average of percentage of medical equipment in status E Proper utilization of medical equipment through UT is improved in all RRHs. at all RRHs is not higher than 4%. Output 4 1) The average increase of scores between the pre-test and (1) Results of pre and post tests for trainees of medical equipment ost-test is at least 15%. aintenance (2) The average of percentage of medical equipment in status C (2) Medical equipment inventory 4.[Project Implementation Team: ME maintenance] and status E at all RRHs is not higher than 15%. ME maintenance and management capacity of workshops (WS) are strengthened.

Version. 4 Dated 31st July 2018

t Assumption	Achievement	Remarks
	•	
for the RRHs will not be /. for the workshops will not antly. Jganda remans stable.	 (1) CQI Process was not identified in target hospitals. (2) Small CQI was not identified in target hospitals. (3) Base line in October 2016: 65.1 % (average) (4) Supervision of WSs were conducted. 	 (1),(2) Assessment of CQI activities is planned to start from January 2019. (3) The latest medical equipment inventory data is planned to be collected and analyzed in Sep Nov. 2018.
rparts do not leave the job d considerably. Ith infrastructure be changed as a result of on.	 Steering Committee meeting was conducted in May 2018. Not achieved yet. Not achieved yet. Not achieved yet. 	 Next Steering Committee shall be conducted in July 2018. (2), (3), (4) Result of Supervision shall be reviewed next in Steering Committee meeting.
	 Data was not available yet. 2nd M&E was still in progress. 	
	 There were 2 regional User Trainers at 13 RRHs. The number of UT was planned to be collected in the third quarter of 2018/2019. Baseline in Oct. 2016: 5.1% 	(3) The latest medical equipment inventory data is planned to be collected and analyzed in Sep Nov. 2018.
	(1) 29.8% (average of	(2) The latest medical
	5 times of trainings) (2) Baseline: 22.1% (C 17.9%+E4.2%)	equipment inventory data is planned to be collected and analyzed in Sep Nov. 2018.

Activities		Input	Pre-Conditions
1-1 Establishment of foundation for the Project and implementation	The Japanese side	The Uganda side	
1-1-1 Establish Project Steering Committee	1. Dispatch of Experts 1) Chief advisor / QI Management System	1. Assignment of Counterparts	
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	2) 5S-CQI-TQM	2. Facilities	
1-1-3 Develop Terms of Reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project	 Utilization of Medical Equipment Maintenance of Medical Equipment Project Coordinator/ Training Management 	 Office space for Japanese experts Administrative cost and other expense such as training and 	
1-1-4 Conduct baseline survey	2. Machinery and equipment	supervision	
1-2 Support Supervision on health infrastructure management	1) Necessary supplies for 5S-CQI-TQM to target hospitals and MOH headquarters	4. Personnel cost for counterparts and other running expenses (daily allowance and transportation expense)	
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels	 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities 		
1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME	4. Training in Japan and/or third countries		
1-3 Project implementation, monitoring and evaluation and institutionalization			
1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle			
1-3-2 Conduct a meeting to review the established system in MOH			
1-3-3 Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections to the Ministerial Policy Statement			
1-3-4 Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure management compiling 5S, UT and ME			
1-3-5 Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME			<issues and="" countermeasu<="" td=""></issues>
2.[Project Implementation Team: 5S-CQI-TQM]			 MOH counterparts were too busy Steering Committee and to collabor
2-1 Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide			Project activities. -The Steering Committee meeting w
2-2 Define criteria for national show case of 5S-CQI-TQM and review national show case(s)			29th May 2018. All member agreed Steering Committee meeting will be
2-3 Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels			2018 to discuss necessary funds fo
2-4 Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.			activities. -Results of Project Steering Commi discussed in Top Management mee MOH.
2-5 Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI			MOH could not allocate necessar
2-6 Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities			the Project activities. -Steering Committee members shal detailed budget allocation plan for e
2-7 Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI			Implementation Team. Updating of Quality Improvement
2-8 Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and ME in collaboration with UT and ME activities under the direction of Project Steering Committee Activity 1-2-2			by QAID was not completed on schu- -5S-CQI-TQM guidelines were draft 2018. Draft guidelines will be scrutir infection prevention and control wor
3.[Project Implementation Team: User Training]			July 2018, which will be held by WH
3-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary			
3-2 Conduct refresher training of user trainers in the previous Project phase.			
3-3 Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals			
3-4 Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2			
4.[Project Implementation Team: Maintenance]			
4-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary			
4-2 Conduct leadership and management training for workshop managers including inventory data analysis			
4-3 Conduct training for workshop staffs on maintenance of basic medical equipment			
4-4 Conduct training for core staff of workshops in first line maintenance of specialized medical equipment			
4-5 Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops			
4-6 Support Workshops to develop a system for sharing knowledge and skills			

countermeasures>

were too busy to conduct and to collaborate the

nittee meeting was held on nember agreed the meeting will be held in July essary funds for the Project

teering Committee will be nagement meeting of

ocate necessary funds for

members shall discuss ation plan for each Project

y Improvement materials mpleted on schedule. lines were drafted in May es will be scrutinized at the and control workshop in be held by WHO.

Attachment-II: Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

nputs				Plan	Ţ	20	016		-	-	2017			2	018		.		2019			2	020				Moni	toring
xpert		_		Actual	I	I	Ш	IV	I	I	I	IV	Ι	I	Ш	IV	Ι	I	I	IV	Ι	I	Ш	IV	Rer	marks	Issue	Solution
				Plan																							Nono	Nana
Chief Advisor/QI Management System®				Actual																					1		None.	None.
Assist Chief Advisor/QI Management System®				Plan Actual																							None.	None.
5S-CQI-TQM ①				Plan Actual																							None.	None.
5S-CQI-TQM (2)				Plan Actual																							None.	None.
Utilization of Medical Equipment	- 17			Plan																							None.	None.
Maintenance of Medical Equipment	- 17			Actual Plan																							None.	None.
	- 17			Actual Plan																								
Project Coordinator/Training Management				Actual																					ļ		None.	None.
quipment Project vehicles and equipment/materials necessary for				Plan																								
project administration				Actual																							None.	None.
raining in Japan				Plan						1 : :							1::				T = =							
				Actual																							None.	None.
-country/Third country Training							· · ·																					
Tanzania KAIZEN TOT				Plan																					4		None.	None.
ctivities	╉	╋╋┥		Actual Plan		2	016				2017			2	018				2019			2	020					
Sub-Activities				Actual	Ι	I	I	IV	I	I	<u> </u>	ĪV	I	I	I	IV	Ι	П	<u> </u>	ĪV	I	I	1	IV	Responsible	e Organization	Achievements	Issue & Countermeasu
utput 1 [Project Steering Committee] Supporting/su	pervis	ng sys	tem for	health infi	rastructu	ure mana	gement	of all the	RRHs is	strengt	hened in	the MOH	1												Japan	Uganda		
1-1 Establishment of foundation for the project and implementation	n																											
1-1-1 Establish Project Steering Committee	\circ \circ	000) Plan																					Expert(s)	All concerned Department	Steering Committee was	None.
				Actual																					Experi(o)	members of MOH	established.	None.
Establish Project Implementation Teams for 5S-CQI-TQM 1-1-2 user training (UT) and medical equipment (ME)	00	000	$\circ \circ$) Plan																					Expert(s)	All concerned Department	Project Implementation Teams	None.
maintenance				Actual																					Experites	members of MOH	were established.	None.
Develop terms of reference (TOR) for Project Steering 1-1-3 Committee and Project Implementation Teams and action	\circ \circ	000) Plan																					Expert(s)	Steering	Work Plan was approved by	None.
plans for implementation of the project				Actual																					Experites	Committee	Steering Committee.	None.
	00	000) Plan																							Situation analysis for all of the	
1-1-4 Conduct baseline survey																									Expert(s)	Implementation Team	targeted hospitals and workshops was conducted.	None.
				Actual																							workshops was conducted.	
1-2 Support Supervision on health infrastructure management																												
Review and revise existing supervision system and tools	00	000	00	Plan																							Kick-off meeting of the project	Supervision tools shall be
1-2-1 through enrichment of checklists of HFQAP(Health Facilit Quality of Care Assessment Program) and allocation of 55		4																							Expert(s)	Steering Committee	was conducted and discussed	submitted to Steering
CQI-TQM facilitators at national and regional levels				Actual																							supervision tools in May 2018.	Committee every three mon
Direct integrated support supervision, mentoring and	OC	00	0	Plan																					Event(a)	Steering	Kick-off meeting of the project was conducted and discussed	
1-2-2 coaching on health infrastructure management as CQI practice integrating 5S, UT and ME				Actual																					Expert(s)	Committee	supervision tools in May 2018.	
	╧╧	┿┿		Aordan																								
	ior					<u></u>							<u> </u>										.					
1-3 Project implementation, monitoring and evaluation and institu	┳┿	100	00	O Plan																					Expert(s)	Steering	Steering Committee meeting	None.
1-3 Project implementation, monitoring and evaluation and institu Organize meetings of Project Steering Committee every 1-3-1 three months and review whether action plan is being	00			Actual																						Committee	was conducted in May 2018.	
Organize meetings of Project Steering Committee every	00			Actual																					Expert(s)	Steering	Work Plan of the Project Term 2 and supervision tools were	None.
Organize meetings of Project Steering Committee every 1-3-1 three months and review whether action plan is being implemented based on PDCA cycle				Plan																								None.
Organize meetings of Project Steering Committee every 1-3-1 three months and review whether action plan is being				_																					Expert(s)	Committee	approved.	
Organize meetings of Project Steering Committee every 1-3-1 three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH Make use of review of activity 1-3-2 for institutionalization	0 C			Plan																					Expent(s)			
1-3-1 Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to 1	of c			Plan Actual Plan																					Expert(s)	Committee Steering Committee		shall be shared with Top Management Committee in
Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH Aske use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies developed	of c			Plan Actual																						Steering		shall be shared with Top
1-3-1 Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to 1	of c			Plan Actual Plan																						Steering	Fort Portal WS was awarded	shall be shared with Top Management Committee in
1-3-1 Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to 1	of c			Plan Actual Plan																						Steering		shall be shared with Top Management Committee in
1-3-1 Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good	of c			Plan Actual Plan Actual Actual																					Expert(s)	Steering Committee	Fort Portal WS was awarded as best WS in 17th WS Performance Review Meeting. And Lira and Fort Portal WS	shall be shared with Top Management Committee in MOH.
1-3-1 Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to this ministerial Policy Statement Organize study tours and QI Conference to share good 1-3-4 practice and lessons learned on health infrastructure	of c			Plan Actual Plan Actual Actual																						Steering	Fort Portal WS was awarded as best WS in 17th WS Performance Review Meeting. And Lira and Fort Portal WS were awarded as best WS in 19th WS Performance Review	shall be shared with Top Management Committee in
Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good	of c			Plan Actual Plan Actual Plan																					Expert(s)	Steering Committee	Fort Portal WS was awarded as best WS in 17th WS Performance Review Meeting. And Lira and Fort Portal WS were awarded as best WS in 19th WS Performance Review Meeting. Two posters concerning SS presented in 4th	Management Committee in MOH.
Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good 1-3-4	of c		00	Plan Actual Plan Actual Actual																					Expert(s)	Steering Committee	Fort Portal WS was awarded as best WS in 17th WS Performance Review Meeting. And Lira and Fort Portal WS were awarded as best WS in 19th WS Performance Review Meeting. Two posters concerning 5S presented in 4th National Quality Improvement	shall be shared with Top Management Committee in MOH.
Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develope through the project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good 1-3-4	of c			Plan Actual Plan Actual Plan Plan Actual																					Expert(s)	Steering Committee	Fort Portal WS was awarded as best WS in 17th WS Performance Review Meeting. And Lira and Fort Portal WS were awarded as best WS in 19th WS Performance Review Meeting. Two posters concerning SS presented in 4th	shall be shared with Top Management Committee in MOH.
Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization support supervision systems and methodologies develop through the project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good 1-3-4	of c			Plan Actual Plan Actual Plan																					Expert(s)	Steering Committee	Fort Portal WS was awarded as best WS in 17th WS Performance Review Meeting. And Lira and Fort Portal WS were awarded as best WS in 19th WS Performance Review Meeting. Two posters concerning 5S presented in 4th National Quality Improvement	shall be shared with Top Management Committee in MOH.

Version	. 4		
Dated	31st	July	2018

Attachment-II: Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

		ities					Plan				16			1		2017			, 	20	18			2	019				202	20		Responsib
		Sub-Activities					Actual	Ι		Π	Ш		IV	Ι	Π	Π		IV	Ι	Π	Ш	IV	Ι	Π	Ш	IV	Ι	Ι	Ι	Ш	IV	
οι	itput	2 [Project Implementation Team: 5S-CQI-TQM]	Reso	ourc	e man	agem	1	iality in	۱pro	/emer	nt activ	ities	are st	rengthe	ned thr	ough C	QI app	roach	in all RR	Hs					1 : :							Japan
	2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	00			00	Plan			_																			_	_	┝╺┝╾	Expert(s)
		g					Actual																									
	2-2	Define criteria for national show case of 5S-CQI-TQM and review national show case(s)	00	SC			Plan																									Expert(s)
							Actual																									
	2-3	Clarify qualification, role and responsibility of 5S-CQI-TQM	\circ	0	0		Plan																									Expert(s)
	2-3	facilitators at national an regional levels					Actual																									Experi(s)
	2-4	Conduct leadership and management training based on the results of the baseline survey for management staff of	00	С	0	0	Plan																									Expert(s)
	2 4	targeted facilities, etc.					Actual																									Experites
		Conduct facilitators' training for 5S-CQI-TQM facilitators at	00	С	0	C	Plan																									
	2-5	national and regional levels with a focus on CQI					Actual																									Expert(s)
	2-6	Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	00		\circ		Plan	_		_																					┝╋╋	Expert(s)
		······································					Actual																						_	_	+++	
	2-7	Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI	00	C	0	C	Plan			_																				_	┝┝┝┝	Expert(s)
				_			Actual			_																					┢╋╋	
	2-8	Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and maintenance of ME in		С	0	0	Plan					_																				Expert(s)
		collaboration with UT and ME maintenance activities, etc. as mentioned in 1-2-2					Actual																									
οι	Itput	3 [Project Implementation Team: User Training] Proj	per	utiliza	tion c	f medical	equipm	ent t	hroug	gh UT is	s imp	oroveo	d in all F	RH																<u></u>	
	3-1	Develop and/or update guidelines, manuals, handbooks,	\circ	0		00	Plan																									Expert(s)
	5-1	monitoring and supervision tools, and facilitators guide					Actual																									Expert(3)
	3-2	Conduct refresher training of user trainers in the previous phase of the Project	00	C	00	0	Plan Actual																								+	Expert(s)
	3-3	Conduct Training of Trainees regarding UT for the phase 2			0	0) Plan																									Expert(s)
		targeted hospitals					Actual																									
	3-4	Conduct support supervision on user training for proper usage and maintenance of medical equipment under the direction of Project Steering Committee in Activity 1-2-2			0		Plan																								+	Expert(s)
		4 [Project Implementation Team: ME maintenal	Ц		Ц		Actual																									
οι	itput	4 [Project Implementation Team: ME maintenal	nce] N	ME	mainte	nanc	e and man	agemei	nt ca	pacity	/ of wo	rksho	ops (V	NS) are	strengtl	hened													1			
	4-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary				00	Plan		_																							Expert(s)
							Actual																									
1	4-2	Conduct leadership and management training for workshop managers including inventory data analysis				0	Plan			_																						Expert(s)
1		Internayers including inventory data affalysis				Ц	Actual																								\square	
	4-3	Conduct training for workshop staffs on maintenance of basic medical equipment			0	00	Plan Actual		+	_		+					\square														+++	Expert(s)
1	4-4	Conduct training for core staff of workshops in first line maintenance of specialized medical equipment				00	Plan Actual					\mp																			Ħ	Expert(s)
1			0.0	2		0	Plan	\vdash	+	-		+						\square												++	┢╋╋	
	4-5	Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops		~			Actual					+																				Expert(s)
1																																1
	4-6	Support Workshops to develop a system for sharing knowledge and skills			0	0	Plan																									Expert(s)
							Actual																									

Version. 4 Dated 31st July 2018

nsibl	e Organization		
in	Uganda	Achievements	Issue & Countermeasures
(s)	Implementation Team	5S-CQI-TQM guidelines were drafted.	It is a concern if a consultative workshop can be held on the guidelines. It relies on MOH.
(s)	Steering Committee	National 5S-CQI-TQM Facilitators meeting was conducted in December 2017. National showcase was clearly defined in draft 5S-CQI-TQM guidelines. 2nd M&E on 5S is being done in May and June 2018.	It is a concern if a consultative workshop can be held on the guidelines. It relies on MOH.
(s)	Steering Committee	Qualification, role and responsibility was clarified in draft 5S-CQI-TQM guidelines.	It is a concern if a consultative workshop can be held on the guidelines. It relies on MOH.
(s)	Implementation Team	The Leadership Improvement Seminar was conducted.	None.
(s)	Implementation Team	National 5S-CQI-TQM Facilitators meeting is conducted in December 2017. National 5S-CQI-TQM facilitators revisited how to evaluate 5S at the kickoff meeting in May 2018.	None.
(s)	Implementation Team	Experts and a local consultant supervised selected RRH in May and June 2018.	None.
(s)	Implementation Team	Training of new national 5S- CQI-TQM facilitators and CQI training were conducted.	None.
(s)	Implementation Team	Experts and a local consultant supervised selected RRH in May and June 2018.	None.
(s)	Implementation Team	Revision of a manual and a draft of guidelines were made.	None.
(s)	Implementation Team	The refresher training was conducted on 18th – 22nd June 2018 at Hoima RRH	None.
(s)	Implementation Team	Training of Trainers for P2 User Trainers were conducted.	None.
(s)	Implementation Team	Support supervision was conducted.	None.
(s)	Implementation Team	The existing WS Operation Manual was reviewed. Supervision tools were developed. Quick-Reference User Guide for inventory data analysis and NOMAD operation was drafted.	None.
(s)	Implementation Team	Small group training on inventory data analysis was conducted.	None.
(s)	Implementation Team	Needs survey for training was conducted.	None.
(s)	Implementation Team	Needs survey for training was conducted.	None.
(s)	Implementation Team	Supervisions and WS Performance Review Meeting were carried out.	None.
(s)	Implementation Team, all WS managers	Small CQI activities were started at most WSs. Supervision tools and service sticker have been used effectively. Some activities have been collaborated with IDI.	None.

Attachment-II: Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

Duration / Phasing	Plan Actual																								
Aonitoring Plan	Plan Actual	I	20 10 Ⅱ	6 Ш	IV	I	П	20 17	7 Ⅲ	IV	I	201 8	8 Ⅲ	IV	I	20 ∏	19 Ⅲ	IV	I	20 ∏	20 Ⅲ	IV	Remarks	Issue	Solution
onitoring																									
Joint Coordinating Committee	Plan Actual																							None.	None.
Set-up the Work Plan of Operation	Plan Actual																							None.	None.
Submission of Monitoring Sheet	Plan Actual																							None.	None.
Monitoring Mission from Japan	Plan Actual																							None.	None.
Joint Monitoring	Plan Actual																							None.	None.
Post Monitoring	Plan Actual																							None.	None.
ports/Documents																									
Progress report	Plan Actual																							None.	None.
Project Completion Report	Plan Actual																							None.	None.
Iblic Relations																									
	Plan Actual																							None.	None.

Version. 4 Dated 31st July 2018

Attachment-III: Priorities in Project Term-2

Items		Action	
1. Strengthening the operational system of the Project under the MOH's S	In charge stewardship	Detailed Action	Schedule
1-1. To make Health Infrastructure Management implementation sustainable			
1-1-1. The reporting format for sharing the progress of the Project activities is developed	Japanese Experts Project Implementation Teams	Draft the format Finalize the format together with QAID	May 2018 June 2018
	(PITs) PITs	Email to SC members and PIT members	Every three months before S0
1-1-2. Project activities are shared among Steering Committee(SC) members and PIT members regularly	Project Manager -CHS(CS)/ Japanese Experts(Chief advisor)	Circulate the report among SC members and PIT members	meeting Every three months before So meeting
1-1-3. The issues and countermeasures are discussed in SC meeting regularly	Project Manager -CHS(CS)	Organize the SC meeting	Every three months
1-1-4. The progress of the activities is presented in Senior Management Committee (SMC) meeting	Project Manager -CHS(CS)	Propose the agenda to SMC meeting secretary	After SC meeting
1-1-5. Minutes of SC meeting are shared among SC members and PIT members	Project Manager -CHS(CS)/ Japanese Experts(Chief	Email the minutes to SC members and PIT members	After SC meeting
1-1-6. The countermeasures discussed in SC meeting are reflected in the next activities	advisor) PIT	Conduct SC meeting	After SC meeting
1-2. Budget planning	1		
1-2-1. The expenses of activities in FY2018/2019 and 2019/2020 are discussed in each PIT	PIT	Conduct PIT meeting	Starting from October 2018 and October 2019
1-2-2. Every PIT applies the budgetary plans to Project Manager	PIT	Conduct PIT meeting	Starting from October 2018 and October 2019
1-2-3. SC meeting is organized to discuss budget allocation of the Project activities among departments	Project Manager -CHS(CS)	Conduct SC meeting	Beginning of July
1-2-4. Project Manager secures the budget for the Project activities 1-3. Requisition of MOH funding for the Project activities	Project Manager -CHS(CS)	Conduct Budget meeting in MoH	Beginning of July
1-3-1. Every PIT requests the budget for the Project activities to Project Manager	PIT	Requisition of activities fund	Before 2months of Activities
1-3-2. Project Manager requests the budget for the Project activities to PS	Project Manager -CHS(CS)	Requisition of activities fund	Before 2months of Activities
1-3-3. Project Manager and PITs follow up on the requisition progress in MOH	Project Manager - CHS(CS)/PITs		Until the budget is released
2. Improving effectiveness of supervision of the Project	· · ·		
2-1. Set the specific PIT intermediate goal	Japanese Experts	Draft the goal	Every three months
	PIT Japanese Experts	Finalize the goal Draft the tools	Every three months
2-2. The supervision tools to be used in PDCA cycle (CQI process) are developed	PIT	Finalize the tools	May 2018
2-3. All PIT members' CQI skills are strengthened in order to use the supervision tools	Japanese Experts	Orient on the tools to the PIT members	May 2018
2-4. Supervision tools are used in supervisions	PIT		Every Supervision
2-5. The records of supervision are discussed and filed	PIT, Target facilities and MOH	File the record of supervision	Every Supervision
2-6. The records of supervision are used for next supervision 3. Accreditation and management of National 5S-CQI-TQM Facilitators	PIT		
3-1. Consultation and discussion with MOH for accreditation of Facilitators	PIT(5S-CQI-TQM)	Development of Guidelines	Until December 2018
3-2. MOH defines National 5S-CQI-TQM Facilitators' requirement and criteria and develops the system for certification	мон	Development of Guidelines	December 2018
3-3. MOH issues certificates to National 5S-CQI-TQM Facilitators	мон	Development of Guidelines	From January 2018
3-4. MOH makes policy direction for the Facilitators	мон		
4. Rolling out the CQI activities to all departments in target facilities 4-1. To provide guidance and mandate for the Hospital Directors in order to c	Project Manager -CHS(CS)	Guide the Hospital Director	
	PIT(5S-CQI-TQM)	Increase the frequency of supervision visit all target facilities at least 4 times a year by National 5S-CQI-TQM Facilitators	
	PIT(UT)	Increase the frequency of supervision 2 times a year for each target facility with User Trainers	
4-2. Strengthen the functionality of QIT and work improvement team (WIT) in the target facilities	PIT(ME)	Increase the frequency of supervision 2 times a year for each WSs	Starting from May 2018
	PITs	Schedule the supervision	Starting from May 2018
	PITs/National Facilitators	Train the National 5S-CQI-TQM Facilitators(2 times)	August 2018 and May 2019
	PITs	Train the QITs and WITs in CQI Support the CQI activities conducted by QITs	Every Supervision
	PITs	and WITs	Every Supervision
	QAID	Organize QI conference Support/develop the presentation for QI	August 2018 and 2019
4-3. Organize QI conference and Study Tours	Japanese Experts	conference Support the Study Tours conducted by target	
	Japanese Experts/PITs	facilities	September 2018 and
	мон	Organize JRM	September 2019
4-4. CQI activities are shared in JRM and Performance Review Meeting	MOH Japanese Expert (Chief	Organize the Performance Review Meeting Request Project Manager to share CQI	
	advisor)	activities supported by the Project Support/develop the documents for JRM and	
5. Criteria for National Showcase hospital is defined in 5S-CQI-TQM	Japanese Experts	Performance Review Meeting	-
guidelines	МОН		December 2018

Attachment-IV: Reporting format for Steering Committee

Progress of the Project Indicators				Progress (May 2018 - May 2020)	- May 2020)			
Indicators	Goal	FY2017/18 Q4	Q1 Q2 FY2018/19	3/19 Q3 Q4	Q	FY2019/20 Q2	/20 Q3	Q4
Output 1: Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH.	ucture management of all th	e RRHs is streng	thened in the MOH.				-	
(1) The Project Steering Committee meeting conducts	Every 3 months							
(2) The results of integrated support supervision conducted	By Project Implementation Teams							
(2) The next quarter action plan developed from these results are shared & approved	At every Project Steering Committee meeting							
(3) Roadmap for incorporating the Project activities into the policy and systems of MOH has been established and implemented	By the Project Steering Committee.							
(4) The project activities are successfully incorporated	Into the Ministerial Policy Statement of MoH							
Output 2: 2.[PIT: 5S-CQI-TQM] Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.	luality improvement activitie	s are strengthen	ed through CQI approach in	all RRHs.				
Module 1: All R (1)Score of module 1 (Leadership) and 6 (Health Infrastructure) points out of 8	Module1: All RRHs mark 5 points out of 8							
HFQAP Facility Assessment Tool	Module 6: 6 points out of 10							
(2)Score of modified 5S M&E Sheet in 5S-CQI-TQM Guidelines	All RRHs mark 33 points out of 54							
Output 3: 3.[PIT. User Training] Proper utilization of medical equipment through UT is improved in all RRHs.	l equipment through UT is in	nproved in all RR	RHs.					
(1) All RRHs obtain regional user trainers	At least 2							
(2) Number of UT conducted by regional user trainers	More than 3 times as par year							
(3) Average percentage of medical equipment in status B	Not higher than 4%							
Output 4: 4.[PIT: ME maintenance] ME maintenance and management capacity of workshops (WS) are strengthened	nagement capacity of works	hops (WS) are st	rengthened.					
(1) The knowledge of trained staff is increased	15% compared to the average scores of all pre-test and post-test.							
(2) Total average percentage of medical equipment in status C and status E	Not higher than 15%							
Project Purpose: Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH	e RRHs in Uganda is strengt	hened with the i	nitiatives of MOH.					
(1) CQI Process or QC Story -The number of cases of CQI Process or QC Story	More than 3 cases							
(2) Good practice of small CQI	All RRHs have at least one							
(3) Average percentage of medical equipment in status A	Higher than 70%							
A) Oppondesions on EQ LIT and ME	Integrated into the system of MOH							
 	Implemented more than XX times.							
Overall Goal: Quality of health care services at all the RRHs in Uganda is improved.	in Uganda is improved.	-	-	-	-		_	
(1) Clients' satisfaction level is improved	×							
(2) Clients' waiting time for consultation, testing, clinical examination, and prescription of drugs are reduced	XX%							
(3) Maintenance cost regarding medical equipment is decreased	xx%							

Attachment-IV: Reporting format for Steering Committee

Progress of Activities: 5S-CQI-TQM

	FY2017/2018	F	Y2017/18
Activities	Q4		Q4
	Planned	Actual	Challenges/Difficulties
2-1 5S-CQI-TQM Guidelines and Facilitators Guidebook; 2-2 Definition of national show cases (in the Guidelines); 2-3 Qualification, role and responsibility of 5S-CQI-TQM facilitators (in the Guidelines)	 Draft of the documents by expert team Submission of the draft documents to QAID Elaboration of the documents based on QAID's suggestions 		
2-4 Leadership training	No activities in the second term.		
2-5 Facilitators' training	1. Preparation of training (in August)		
2-7 CQI training at target health facilities	No activities in the quarter		

Attachment-IV Reporting format for Steering Committee

Summary of Supervision: 5S-CQI-TQM

			FY		FY	
	Target Facilitie	s	Q		Q	
			Date of SV	Action to deal with major problems	Challenges/Difficulties	Homework for next supervision
1	Arua	RRH				
2	Fort Portal	RRH				
3	Gulu	RRH				
4	Hoima	RRH				
5	Jinja	RRH				
6	Kabale	RRH				
7	Lira	RRH				
8	Masaka	RRH				
9	Mbale	RRH				
10	Mbarara	RRH				
11	Moroto	RRH				
12	Mubende	RRH				
13	Naguru	RH				
14	Soroti	RRH				
15	Entebbe	GH				
16	Tororo	GH				

Attachment-IV: Reporting format for Steering Committee

Progress of Activities: User Training

	FY2017/2018	FY2017/18	
Activities	Q4	Q4	
	Planned	Actual	Challenges/Difficulties
3-1 Update and develop manuals, guidelines, and monitoring tools	 Draft of the documents by expert team Submission of the draft documents to related department. Elaboration of the documents based on related department suggestions. 		
3-2 Refresher training of user trainers in the previous Project phase	 Review and Improvement of teaching skill. Cooperation with RWS and utilization of inventory data. Training for new target equipment's 16 User Trainer. 5days 		
3-3 Training of Trainers (TOT) for user trainers of the P2 and P1 Successor	No activities in the quarter.		

Attachment-IV: Reporting format for Steering Committee

Summary of Supervision: User Training

			FY		FY	
	Target Facilitie	es	Q		Q	
	-		Date	Challenges/Difficulties	Action to deal with major problems	Homework for next supervision
1	Arua	RRH				
2	Fort Portal	RRH				
3	Gulu	RRH				
4	Hoima	RRH				
5	Jinja	RRH				
6	Kabale	RRH				
7	Lira	RRH				
8	Masaka	RRH				
9	Mbale	RRH				
10	Mbarara	RRH				
11	Moroto	RRH				
12	Mubende	RRH				
13	Naguru	RH				
14	Soroti	RRH				
15	Entebbe	GH				

Attachment-IV: Reporting format for Steering Committee

Progress of Activities: ME (Maintenance)

	FY2017/2018	FY2	2017/18
Activities	Q4		Q4
	Planned	Actual	Challenges/Difficulties
4-1 Update WS operation manual, guideline and supervision tools as necessary	 Review and update the existing WS Operation Manual Develop and finalize supervision tools by PIT on ME component. 		
4-2 Training on Leadership and Management for WS managers	No activities in the quarter.		
4-3 Training in Maintenance of Basic Medical Equipment	No activities in the quarter.		
4-4 Training in First-Line Maintenance of Specialized Medical Equipment	Prepare the training in the 2nd Quarter of FY2018/19		
 4-5 Strengthen capacity of Central WS and HID to support Regional WSs 4-6 Support WSs to develop a system for sharing knowledge and skills 	 Conduct supervision visits for the WSs Organize and attend the 20th WS Performance Review Meeting Sensitize the CQI approach for the WSs Use standardized supervision tools 		
Others	1. Develop a Work Plan of ME component activities2. Conduct survey for all the WSs3. Support rocess for Japan's Training "Medical Maintenance Management"		

Attachment-V: Table for Targeted Medical Equipment for User Training

No.	Name of Equipment	No.	Name of Equipment	No.	Name of Equipment
1	Autoclave	11	Weighing Scale	21	Vertical Autoclave
2	Boiler	12	Resuscitator	22	Diathermy (Electric Surgical
					unit)
3	Table Top Autoclave	13	Recovery Bed	23	Glucometer
4	Oxygen Cylinder	14	Pulse Oximeter	24	Patient monitor
5	Oxygen Concentrators	15	MVA Set	25	Defibrillator
6	Vacuum Extractor	16	Infant Warmer	26	Ultrasonography
7	Operating Table	17	Infant Incubator	27	Infusion Pump (New)
8	Nebulizer	18	Hot Air Oven	28	Syringe Pump (New)
9	Suction Machine	19	Electrocardiogram		
10	Blood Pressure Machine	20	Fetal Doppler		

Table for Targeted Medical Equipment for User Training

Attachment-VI: The draft templates of Support Supervision Report and CQI Action Plan

1) Support S	upervision Report, 2 p	age	s fo	r ha	and	w	ritir	ng	us	e)						
Support Supervis	on Report						7	Smi	ath	proo	iromont of a	para parta		Good Fa	ir NG	N/A
Name of WS:	Date: / / 20	Time:	:	~	:		1				urement of s	pare parts				
[] Courtesy call to						_										_
[] Communication from	the Chair		[Tick	_		-										_
[] Brief report about the		Good	Fair	Not Good	N/A											
The points to be discuss 1 Timely submission	of the Quarterly Report			0000			8	Bro		of	S activities i	n the Work	chon			
Timely submission	of the Annual Work Plan						•				QI activities					
	eting, Operational Plan, Work schedule					-							•			
Reason for good ach	evement or root causes for not achieving goo	a score.				1										
2 Disbursement of ap	proved WS budget						9	Lea	dersl	hip ar	nd Team-bui	lding				
Proper budget alloc	ation					-										
						1										
3 Regular update of M	IE Inventory for RRH, GHs, HC-IVs					1	10)								
Note: Enter Excel sh	eet, data cleaning, analysis, NOMAD															_
						-										
						1										
4 Holding user trainin	gs together with qualified user trainer					٦	11	Way	For	ward	/ Priority iss	ues to be s	solved			
Note: How many time]		_									_
						-										
							_									
																_
E Eurotioning provon	tivo maintonanao 8 quality control					٦										
	tive maintenance & quality control Sticker, Electrical safety analyzer, Oxygen ar	nalyzer e	etc.				_									
						1	12	Atte	ndar	nce Li	istis; []at	tached [] not attached			
		_			-	-	De		المراجع			C		Currentiese		
6 Follow-up of the co Note: Feedback sess	nducted trainings ion, sharing handouts, on the job training (OJ	T) etc				-					lanager,	-	ervisor,	Supervisor		
		.,				1	Na	ame								_
							Si	gnatu	re							_
						-										
2) CQI Action	n Plan, 1 page, for har	nd w	ritin	g u	se											
	TION PLAN FOR CQI/KAIZEN A			.								Date:	1 1			
	topic:											Place:	/ /			
CQI	topic:															
												Impleme	nter(s):			
					Fron	n· / /	to:	11			Respo	onsible		Tick when		
No.	Actions to be taken	1			11		21		3	М	pers	on(s)	Resources	completed		
1																
2														<u> </u>		
									_					<u> </u>		
3					L		_									
4							Π									
5					++		+		+					+		
														<u> </u>		
6														1		
7					Ħ	1	$\uparrow \uparrow$		+					1		
					+++		+		+					<u> </u>		
8																
9						П										
10							+		+					+		
11																
12																
1						1							1	1		

No	WS		Name	e of priority equip	oment	
INO	VV3	1	2	3	4	5
1	Arua	Gene Xpert/ CD4 analyzer	Haematology analyzer	Anaesthesia machine	Power backup system	
2	Fort Portal	Patient monitor	Ventilator	Infusion pump	Anaesthesia machine	Ultrasound machine
3	Gulu	Ventilator	Infusion pump	Patient monitor	Ultrasound machine	Anaesthesia machine
4	Hoima	Oxygen concentrator	Refrigerator	Pulse oximeter, BP machine	Infant warmer	Infant incubator
5	Jinja	Patient monitor	Ultrasound machine	ECG machine	Fridge	Autoclave
6	Kabale	Infusion/ Syringe Pump	Ventilator	Defibrillator	Chemistry Analyzer	Anesthesia Machine
7	Lira	ECG machine	Patient monitor	Ventilator	Anaesthesia machine	Infant warmer
8	Mbale	Oxygen concentrator	Ultrasound machine	Suction machine	Autoclave	
9	Moroto	CD4 counter	Hematology analyzer	Ventilator	Slit lamp microscope for eye	Incubator
10	Mubende	Ultrasound machine	Patient monitor	Ventilator	X-ray machine	Infusion/syrin ge pump
11	Soroti	Anaesthesia machine	Diathermy/El ectro-surgical machine	Slit lamp microscope for eye	Patient monitor	Ultrasound machine
12	Central	Un-answered				

Attachment-VII: Survey of Medical Equipment Requiring for The Training

RESULTS 53 points in Total

- 6 Points: Ultrasound machine, Patient monitor, Anesthesia machine, ventilator
- 4 Points: Infusion/Syringe pumps
- 2 Points: Oxygen concentrator, Autoclave, Infant warmer, ECG machine, Refrigerator, Incubator, GeneX-pert/CD4 counter, Haematology analyzer, Slit lamp microscope
- 1 Point: X-ray machine, Chemistry analyzer, Defibrillator, Suction unit, Diathermy, Pulse oximeter/BP machine, Power backup system

Attachment-VIII: List of the implemented Small CQI Topics in each WS

SM	No.	CQI Topics	No. of Actions	Period	Date of Start	Date of Completion	Tick
Arua	1	Update equipment inventory of Arua RRH	10	3 Months	4/6/18	3/9/18	
	2	Introduce new stock management system for spare parts	7	3 Months	4/6/18	3/9/18	
Fort Portal	З	Develop and execute user training plan	10	3 Months	1/7/18	30/9/18	
	4	Regular collection and update of equipment inventory for RRH and GHs	13	5 Months	2/7/18	30/11/18	
Gulu	5	Complaint form system to be put in use	8	2 Months	29/5/18	28/7/18	
	б	Service sticker to be put in use and job cards to be properly filed	7	2 Months	29/5/18	28/7/18	
Hoima	7	Make an Annual Workplan for FY2018/19 by cooperating all members	8	1 Month	1/6/18	30/6/18	
	8	Update equipment inventory of Hoima RRH	11	2 Months	11/6/18	10/8/18	
Jinja	9	Equipment inventory of Jinja RRH to be regularly updated	11	1.5 Month	22/5/18	30/6/18	
	10	Procuring a printer for using inventory exercise and others	9	1.5 Month	22/5/18	30/6/18	
Kabale	11	Improving spare parts stock management (using stock cards and ledger)	9	3 Months	18/6/18	17/9/18	
Lira	12	Making bigger workshop space and protect equipment from dusts	œ	1 Month	4/6/18	3/7/18	
Mbale	13	Setting up filling system in the Workshop	œ	1.5 Month	23/5/18	30/6/18	
	14	Increasing number of issued Job cards and filling Job cards properly	14	1.5 Month	23/5/18	30/6/18	
Mubende	15	Secure Personal Protection Equipment (PPE) for Technicians	œ	3 Months	2/7/18	30/9/18	
	16	Collection and updating medical equipment inventory in RRH and 2 GHs carried out regularly	14	3 Months	2/7/18	30/9/18	
Soroti	17	Al lease one technician to attend morning meeting regularly	œ	1 Month	25/5/18	24/6/18	
	18	Number of Job cards to be increased	7	3 Months	25/5/18	24/8/18	
CWS	19	Conducting regular internal meetings	10	3 Months	2/7/18	1/10/18	
	20	Implement Planned Preventive Maintenance (PPM)	14	3 Months	16/7/18	15/10/18	

Attachment-IX: Results of Questionnaire Survey

Medical Equipment Maintenance Workshop Information Sheet (Including Masaka & Mbarara Workshops in RRHs)

1. Staffing in each WS including volunteers

			Num	ber of	staff b	y spec	alty		No	No. Gov pay	No. Har equ
	WSs	Bio-Medical	Electrical	Mechanical	Plumber	Carpenter	Others	Total	No. of engineer	No. of Government payroll	No. of staff who Handle medical equipment
1	Arua	1	2	1	1	1	3	9		5	4
2	Fort Portal	1	3	1	2	1	1	9	1	8	6
3	Gulu	1	3	2	1	1	1	9	2	7	4
4	Hoima	0	5	1	2	0	1	9		9	2
5	Jinja	2	1	0	2	0	2	7		7	3
6	Kabale	1	3	1	1	1	2	9		8	6
7	Lira	2	2	1	1	0	0	6		5	5
8	Mbale	1	3	0	1	1	3	9		5	5
9	Moroto	1	2	0	1	1	2	7	2	6	5
10	Mubende	0	3	1	1	1	1	7		6	4
11	Soroti	1	2	1	1	1	0	6		6	3
12	Central	2	3	4	0	0	0	9	2	7	9
13	Masaka RRH	1	2	0	2	1	0	6		5	3
14	Mbarara RRH	2	2	0	1	1	0	6	2	4	4

2 Regional '	WSs A	nnual	Budge	et	UShs Thousand				
WSs			ilities in Ient are		Annual Budget for WS(2017/18)				
VV35	RRH	GH	HC4	Total	Approved (confirmed)	Released as of May 2018			
Arua					232,000	227,513			
Fort Portal	1	3	13	17	194,704	Not collected			
Gulu	1	2	8	11	168,000	167,779			
Hoima	1	3	8	12	100,729	Almost 100%			
Jinja	1	4	22	27	90,000	Almost 100%			
Kabale	2	5	38	45	375,000	354,669			
Lira	1	1	1 9 11		128,000	100%			
Mbale	1	10	26	37	361,000	281,000 ¹			
Moroto	1	2	5	8	125,000				
Mubende	1	2	7	10	82,000	95%			
Soroti	1	5	10	16	141,000	100,000			
Central	2	8	40	50	680,000	480,000			
Masaka			1	0 (No budget)	By request				
Mbarara	1	-	-	1	0 (No budget)	By request			

¹Un-released budget 80 mil. Ushs (361 mil. -281 mil.) is used for hospital electricity bills.

3. Procedures for Equipment Repair and Spare Parts Purchasing

3-1 Is the Complaint Form in use on daily basis?

3-2 Is the Job Card in use on daily basis?

3-3 How many Job Cards did the WS issue for 1st Quarter to 3rd Quarter of FY 2017/18?

3-4 Is the Framework Contract introduced for purchasing spare parts in use now?

3-5 Do you have the store management system such as stock card etc.?

3-6 Do you carry out any quality /safety testing for preventive maintenance?

Question	3-1	3-2	3-3 2017/18 (Q1-Q3)	3-4	3-5	3-6
Arua	Yes	Yes	-	Yes	Yes	Yes
Fort Portal	Yes	Yes	481	Yes	Yes	Yes
Gulu	Partial	Yes	-	No	Yes (Introduced in April)	Yes (Introduced in April)
Hoima	Yes	Yes	-	No	No	Partial
Jinja	Yes	No	-	Yes	Partial	No
Kabale	Partial	Yes	855	No (RFQ)	Partial	Yes
Lira	Yes	Yes	553	Yes	Yes	Yes
Mbale	Partial	Yes	188	Yes	Partial	Partial
Moroto	Yes	Yes	-	Yes (RFQ)	Yes	No
Mubende	Partial	Yes	459	No	Partial	Partial
Soroti	Yes	Yes	260	Yes	Yes	No
CWS	No	Yes	602	Yes	Yes	No
Masaka	No	Yes (original format)	-	No (RFQ)	No	No
Mbarara	Partial (no format)	No	0	No (RFQ)	No	Partial (O2 concentrator, suction)

4 Updating medical equipment inventory

4-1 Do you update medical equipment inventory annually for RRH, GHs and HC-IVs?

4-2 Do you use service sticker system, whenever use for maintenance?

4-3 Is NOMAD software functioning?

Question		4-1		4-2	4-3
	RRHs	GHs	HC-IVs		
Arua	Yes	No	No	Yes	No
Fort Portal	Yes	Yes	Yes	Yes	No, Web page is not opening
Gulu	Partial	No	No	No	No
Hoima	Partial	Partial	No	Yes	No
Jinja	No	No	No	Yes	No
Kabale	Yes	Yes	Partial	Yes	No, login blocked
Lira	Yes	Yes	Yes	Yes	Interrupted
Mbale	Yes	Yes	No	Yes	No

Moroto	Yes	Yes	Yes	Yes	No
Mubende	Partial	Partial	Partial	Yes	No
Soroti	Yes	Yes	Yes	Yes, started	Interrupted
Central	Partial	Partial	Partial	Yes	Partial
Masaka	Yes	No	No	No (distributed stickers)	No
Mbarara	Yes (RRH)	-	-	No (distributed stickers)	No

5. Work Plan preparation, maintenance work and user training

- 5-1 Did you prepare an annual Work Plan 2018/19 including operational plan, budget and quarterly schedule, etc.?
- 5-2 Did you prepare a Quarterly Workplan?
- 5-3 How often do you carry out routine maintenance visits to the GHs and the HC-IVs?
- 5-4 How often do you hold "Regional WS Management Committee Meeting" FY2017/18?

5-5 How many times have you carried out User Training in FY2017/18 with qualified user trainers? Table 6 Routine maintenance

WS	Annual V	5-1 Vork Plan (c	contents)	5-2 Quarterl		ntenance er year	5-4 RW	5-5
003	Operational plan	Budget	Quarter schedule	y Work plan	GHs	HC-IVs	MC M	UT
Arua	Yes	Yes	Yes	Yes	4	3	1	Yes
Fort Portal	Yes	Yes	No	Yes	4	4	0	Yes
Gulu	No	No	No	Yes	4	4	0	No
Hoima	No	No	No	No	4	4	0	Partial
Jinja	No	No	No	No	No	No	1	No
Kabale	Yes	yes	Yes	Yes	4	2-3	1	Yes
Lira	Yes	Yes	Yes	Yes	4	4 + emergency	2	Yes
Mbale	Yes	Yes	Yes	Yes	2	1	1	1
Moroto	Yes	Yes	Yes	Yes	4	4	1	yes
Mubende	Yes	Yes	Yes	Yes	2-4	2-4	0	4 Times
Soroti	Yes	Yes	Yes	Yes	4	4	1	Yes
CWS	No	Yes	No	Yes	4	4	0	1
Masaka	No	No	No	No	-	-	-	No
Mbarara	No	No	No	Yes	-	-	-	No

Abbreviations

CQI	Continuous Quality Improvement
CWS	Central Workshop
DHO	District Health Office
GH	General Hospital
HFQAP	Health Facility Quality of Care Assessment Program
HID/MOH	Infrastructure Department, Ministry of Health
IDI	Infectious Disease Institute
JICA	Japan International Cooperation Agency
KOFIH	Korea Foundation for International Healthcare
ME	Medical Equipment Maintenance
M&E	Monitoring and Evaluation
MOH	Ministry of Health, Uganda
NOMAD	New Order for Managing Anything Data
PDM	Project Design Matrix
PIT	Project Implementation Team
Phase 1	The Project on Improvement of Health Services through Health Infrastructure
	Management
QAID	Quality Assurance and Inspection Department, Ministry of Health, Uganda
QIT	Quality Improvement Team
QC	Quality Control
QI	Quality Improvement
RH	Referral Hospital
RHITES	Regional Health Integration to Enhance Services
RRH	Regional Referral Hospital
RWS	Regional Workshop
TQM	Total Quality Management
USAID	United States Agency for International Development
WIT	Work Improvement Team
UT	User Training
WS	Workshop

To CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 5 (Term: 1st July 2018 – 31st December 2018)

Name: Dr. Olaro CharlesTitle: Project DirectorName: Hiroshi TaseiTitle: Chief AdvisorSubmission Date: 25th February 2019

I. Summary

1 Progress and Achievements of Project

1-1 Progress of Inputs

[The Japanese side] 1-1-1 Dispatch of JICA Experts

The Japan International Cooperation Agency (JICA) Experts were dispatched on schedule. The list of the experts is shown in the table below.

Name		2018					Total
		8	9	10	11	12	(days)
Hiroshi Tasei Chief Advisor/QI Management System①				87		26	113
Shizu Takahashi Vice Chief Advisor/QI Management System②						28	28
Naoki Take 5S-CQI-TQM①						92	92
Yujiro Handa 5S-CQI-TQM②			35			25	60
Yasuhiro Hiruma Utilization of Medical Equipment	2	20				65	85
Naoki Mimuro Maintenance of Medical Equipment	11					80	91
Emi Onosaka Project Coordinator/Training Management	11					59	70

1-1-2 Delivery of 5S tool kits

The JICA Experts delivered 5S tool kits to help the implementation of the 5S activities at Masaka Regional Referral Hospital (RRH), Moroto RRH and Naguru Referral Hospital (RH). The contents of the tool kits included: a carrying bag with several types of stationary such as

markers, pens, scissors, tapes, etc.

[The Ugandan side]

1-1-3 Assignment of Counterparts

- (1) Two (2) National 5S-CQI-TQM facilitators carried out the 5S Facilitators' Training.
- (2) Four (4) former project User Trainers, also called Senior User Trainers, carried out the Training of Trainers for User Trainers.
- (3) Infrastructure Department, Ministry of Health (HID/MOH) carried out the support supervision for Regional Workshops (RWSs).

1-2 Progress of Activities

1-2-1 Activities of Output 1

(1) Steering Committee Meeting

Related to activity	Planned in August, December 2018
1-3-1/1-3-2	
Details	Steering Committee Meeting (1)
	• Date and Venue: 17th August 2018 at the 3rd Floor Board Room
	in Ministry of Health (MOH)
	• Participants: Six (6) from MOH, six (6) from Project and three (3)
	from JICA Uganda Office
	Objectives:
	(1) To present a report on the progress of the 1st Quarter of
	2018/2019 (July - September 2018)
	(2) To discuss the 2nd Quarter of 2018/2019 (October - December
	2018) budget for project activities
	Steering Committee Meeting (2)
	• Date and Venue: 27th November 2018 at the 3rd Floor Board
	Room in MOH
	• Participants: Six (6) from MOH, six (6) from Project and four (4)
	from JICA Uganda Office
	Objectives:
	(1) To report on the progress of the 2nd Quarter of 2018/2019
	(2) To discuss the 3rd Quarter of 2018/2019 (January - March
	2019) budget for project activities
Achievement	Steering Committee Meeting (1)
	• All members shared project activities through the reporting format
	which was approved at the last Steering Committee meeting.

	The regults of the and Manitarian and Evaluation (MARE) 50 001
	 The results of the 2nd Monitoring and Evaluation (M&E) 5S-CQI- TQM conducted in August 2018 were shared to all members.
	 Steering Committee members were informed that disbursement of
	0
	the MOH budget in the 1st Quarter of 2018/2019 was 10% of the
	planned budget.
	• Steering Committee members agreed that expenses of all activities
	especially allowances of counterparts shall be covered by the
	departmental budget.
	• The 3rd Training of Trainers of User Trainers shall be postponed
	to September due to a disbursement delay of the budget.
	Steering Committee Meeting (2)
	 Project Manager appreciated the fact that project activities are
	being implemented smoothly.
	 Allowances for participants of specialized medical equipment
	training, Training of Trainers of User Trainer and 5S Facilitator
	training shall be paid from the MOH budget.
	• The Project requested support for funds for Workshop Leader
	ship training from the JICA side; however, the request was not
	approved.
Way Forward/	• MOH shall organize study tours to high scoring facilities, targeting
Challenges	low scoring facilities to foster leadership. As of January 2019, it has
	not been realized, yet each hospital has been considering the
	possibility of visit.
	 The Project budget for the next quarter shall be discussed at the
	beginning of each quarter.
	• The Project Implementation Team (PIT) shall apply for funds for
	Project activities whether or not implemented.

(2) 5th National Healthcare Quality Improvement Conference

Related to activity	Planned in August 2018
1-3-4	
Details	The 5th National Healthcare Quality Improvement Conference (QI
	Conference) was held on 4th - 6th December 2018 at Hotel Africana,
	Kampala. The Project supported the secretariat of QI conference:
	• Arrangement of the keynote speech by Prof. Yujiro Handa (JICA
	Expert 5S-CQI-TQM). The theme of the speech was

	"Strengthening Leadership and Governance Capacity and Support
	for QI throughout the Health Sector"
	• Technical support to the project target hospitals to prepare
	abstracts and design presentations.
	• Writing of an article on the Project entitled "Seeking Quality
	Improvement through Better Working Environment: Promotion of
	5S-CQI (KAIZEN) -TQM Practice in Health Services"
Achievement	• With a unique arrangement, the keynote speech by Prof. Handa
	was successfully carried out. The one-hour speech was divided
	into three (3) parts: Prof. Handa spoke about the conceptual
	framework of 5S-CQI-TQM in line with leadership, management
	and governance, followed by the current status of 5S performance
	by Mr. Naoki Take (JICA Expert 5S-CQI-TQM). In addition, Dr.
	Sophie Namasopo, Director of Kabale RRH talked about a case of
	successful functionalization of the 5S-CQI-TQM implementation
	structure. This type of arrangement enlightened conference
	participants on a success story of 5S-CQI-TQM in practical terms.
	Key note speech; Prof. Handa, Mr. Take and Dr. Sophie
	ullet In total, seven (7) abstracts were approved from the target
	hospitals: Five (5) from Kabale RRH, one (1) from Entebbe General
	Hospital (GH) and one (1) from Jinja RRH. Three (3) abstracts (two
	(2) from Kabale and one (1) from Entebbe) were oral presentations
	and four (4) were posters (three (3) from Kabale and one (1) from
	Jinja).
	Poster: Kabale RRH Oral presentation: Entebbe

	 The article on the Project was placed in two (2) major newspapers: Daily Monitor and New Vision. 		
Way Forward/ Challenges	 It is expected that the 5S-CQI good practice will be spread to all health facilities and among health service providers in Uganda. 		
	• The Project will support the next conference in 2019.		

(3) KAIZEN Training of Trainers in Tanzania 2018

Related to activity	Planned in November 2018		
1-2-3			
Details	Date and Venue: 12th -16th November at Mbeya Zonal Referral		
	Hospital, Mbeya, Tanzania		
	• Participants: Ms. Beatrice Amuge, Assistant Commissioner,		
	Nursing Service, Mulago National Referral Hospital and Ms. Lilian		
	Bako, Nursing Officer, Kabale RRH		
	• Objectives: The purpose of the training was to build participants'		
	capability in terms of skills and knowledge on the KAIZEN		
	approach for strengthening resource management and improving		
	the quality of health services.		
Achievement	ullet Both participants attended the whole program and returned to		
	Uganda safely. They both submitted their reports and action plans		
	to the training secretariat. The participant from Kabale RRH has		
	already conducted feedback training to her hospital staff. Reports		
	of both participants are as per Attachment III.		
Way Forward/	 The JICA Experts will follow-up these trainees during supervision, 		
Challenges	and analyze the outcomes and impacts of the training. Their		
	progress reports are supposed to submit to JICA Uganda office by		
	May 2019.		

1-2-2 Activities of Output 2

(1) Second M&E of 5S Performance

Related to activity	Twice a year: every May and November
2-2	

Detaile	• The UCA Evenettenely and data callected by National EC COLTON		
Details	 The JICA Expert analyzed data collected by National 5S-CQI-TQM 		
	and shared the results with all target hospitals.		
	• The JICA Experts presented the results at MOH, i.e., Supervision,		
	Monitoring, Evaluation and Research Technical Working Group		
	meeting in September 2018 and Senior Management Committee		
	meeting in October 2018. (See Attachment IV)		
	 The results were also shared at the 5th QI Conference. 		
Achievement	 All target hospitals received information on their current status of 		
	5S. Some of them made efforts to improve the status, even before		
	supervision by JICA Experts.		
	 Results of M&E are shown in Attachment V. 		
Way Forward/	• The 3rd M&E of 5S performance will be carried out in March and		
Challenges	April 2019. Quality Assurance and Inspection Department, Ministry		
	of Health (QAID) is expected to finance this exercise. However, in		
	case emergency issues (e.g. Ebola prevention and control)		
	happened in another quarter, it might be difficult to conduct this		
	exercise in the current budget amount.		

(2) Supervision of 5S-CQI-TQM

Related to activity	Started from June 2018
2-6/2-8	
Details	JICA Experts supervised 5S-CQI-TQM activities at the following 14
	hospitals. Supervisory visits were made to the selected units or
	departments; the JICA Experts spent 1-2 days sharing the details of
	results of the 2nd M&E and giving a short lecture on a specific topic,
	e.g., introduction of CQI tools.
	 August: Entebbe GH, Gulu RRH, Lira RRH, Soroti RRH
	 September: Fort Portal RRH, Kabale RRH, Mbarara RRH
	● October: Arua RRH, Hoima RRH, Mubende RRH, Naguru RH
	• November: Entebbe GH, Jinja RRH, Kabale RRH, Mbale RRH,
	Mbarara RRH, Tororo GH
Achievement	• The 14 hospitals got an opportunity to commence CQI even on a
	small scale. They also received detailed information on the
	strengths and weaknesses in terms of 5S implementation, and tips
	for improvement.
	 In most hospitals, many units and departments had started efforts

	to improve the status of 5S, prior to the supervision.	
Way Forward/	• Supervision of 5S-CQI-TQM is supposed to be done quarterly,	
Challenges	based on the findings at each opportunity of supervision and status	
	of progress of countermeasures. QAID and JICA Experts will jointly	
	conduct supervision according to their feasibility.	
	 QAID could not ensure the budget for supervision of 5S-CQI-TQM 	
	in the 1st Quarter of 2018/2019 because of the very small	
	allocation. As it prioritized the training of 5S and 5S-CQI-TQM	
	facilitators in the 2nd Quarter of 2018/2019, the budget was not	
	allocated for the supervision. Consequently, JICA Experts	
	supervised the target hospitals without mobilizing counterparts of	
	MOH and could not manage to supervise two (2) hospitals	
	(Masaka RRH and Moroto RRH).	

(3) Training of 5S and 5S-CQI-TQM Facilitators

Related to activity	November 2018	
2-5/2-7		
Details	 Date: 28th - 30th November 2018 	
	 Venue: Ridar Hotel, Mukono District 	
	 Facilitators: Three JICA Experts and two (2) National 5S-CQI-TQM 	
	facilitators	
	Participants: 10 candidates of National 5S-CQI-TQM facilitators	
	from 10 target hospitals (Entebbe, Fort Portal, Gulu, Jinja, Hoima,	
	Lira, Masaka, Moroto, Mubende and Naguru); 25 participants from	
	five (5) hospitals other than the Project target hospitals (Mulago	
	National Referral Hospital, Women's and Neonatal Hospital,	
	Butabika National Referral Hospital, Kawempe Referral Hospital	
	and Kiruddu Referral Hospital)	
	• Contents of training: Lectures on leadership, management, team	
	building, 5S principles, 5S tools and M&E exercises on 5S and	
	supervision.	
	● Funding:	
	(1) Ugandan side: 22,200,000UGX for allowances and transport	
	costs, 67.5% of total training expenses.	
	(2) Japanese side: 5,765,000UGX for refreshment costs, 32.5% of	
	total training expenses.	

Achievement	• 10 new facilitators received basic skills training for facilitation of 5S-	
	CQI-TQM at health facilities.	
	 25 health workers received basic skills training for implementation 	
	of 5S activities at five (5) hospitals other than the Project target hospitals.	
	 Implementation of this training was made possible by the strong 	
	leadership and commitment of the Commissioner QAID;	
	allowances and transportation of the participants were covered by	
	the department.	
Way Forward/	• Originally, they were supposed to be two (2) separate training	
Challenges	sessions (training of facilitators (Activity 2-5) and 5S-CQI-TQM	
	training (Activity 2-7)), but they were merged into one to save costs.	
	 Above mentioned five (5) hospitals (Mulago, Specialized Women's 	
	and Neonatal, Butabika, Kawempe and Kiruddu) are not project	
	target hospitals. JICA experts are going to technically support	
	QAID to realize their ownership through taking initiative to	
	implement supervision in these hospitals.	

1-2-3 Activities of Output 3

(1) Development of User Training (UT) Manual/Guidelines

Deleted to	Diamagd in June 2010 March 2010	
Related to	Planned in June 2018 - March 2019	
Activity 3-1		
Details	• Date and Venue: 4th October - 31st December 2018 at MOH	
	Project office	
	• Participants: One (1) JICA Expert, two (2) MOH Officials and one	
	(1) Secretary	
	Objectives:	
	(1) The contents of UT manual were revised and confirmed by the	
	User Trainers.	
	(2) UT guidelines were drafted by the JICA Experts, and revised and	
	confirmed by Clinical Service and Nursing Department.	
Achievement	The UT manual was proofread and corrected.	
	•The draft UT guideline was developed by the JICA Expert and	
	checked by C/P.	
Way Forward/	•It is necessary to confirm the procedure for the official document	
	guidelines.	

Challenges	•The contents of the guidelines need to be approved by the members of top management in MOH.		
 3rd Training of Use 	of User Trainer		
Related to	Planned in July 2018.		
activity 3-3			
Details	 Date and Venue: 26th - 30th November 2018 at Fort Portal RRH and St. Joseph Inn Virika. Facilitators: Two (2) from Clinical Service and Nursing 		
	 Facilitators: Two (2) from Clinical Service and Nursing Department, one (1) from JICA Project, and four (4) Senior User Trainers 		
	 Participants: 12 User Trainers and five (5) User Trainer Candidates from the 10 RRHs and one (1) GH Objectives: 		
	 Objectives: (1) The 12 User Trainers and the five (5) User Trainer candidates to review the guidelines of the 28 pieces of medical equipment. (2) To gain the required training skills and teaching methods for the target medical equipment. 		
	 (3) To learn the, reporting skills and utilization of the budget from Medical Equipment Maintenance Workshop (WS) for UT activities 		
	 Funding: (1) Ugandan side: 14,155,000UGX for allowances, 70% of total training expenses. (2) Japanese side: 5,645,000UGX for transport costs and 		
	refreshment costs, 30% of total training expenses.		
Achievement	• The results of the written test were 56% for the pre-test and 78% for the post-test on average. The average improvement was 22% compared with the pre-test, hence confirming the positive outcome of the training.		
	 The trainers were assessed on the practical test as reflected in the result which was 4.04 (5.00 for full score) on average. Teaching skills of 17 User Trainers were improved. 		
	 Planning and reporting skills of 17 User Trainers were improved. 		
Way Forward/ Challenges			
	during support supervision and TOT.Implementation of the 3rd training of User Trainer was behind		



(3) Support Supervision

Related to	Planned in September 2018 - May 2020.	
activity 3-4		
Details	• The JICA Expert and Secretary carried out the following support	
	supervision for seven (7) RRHs.	
	(1) 29th October 2018 at Jinja RRH	
	(2) 30th October 2018 at Soroti RRH	
	(3) 31st October 2018 at Gulu RRH	
	(4) 2nd November 2018 at Mubende RRH	
	(5) 5th November 2018 at Naguru RH	
	(6) 6th November 2018 at Fort Portal RRH	
	(7) 7th November 2018 at Mbarara RRH	
	Objectives:	
	(1) Ensure the availability of UT Work Plans in the hospitals and	
	lower-level health facilities.	
	(2) Provide technical guidance of the UT	
	(3) Confirmation and guidance on collaboration with WS and WS	
	staff	
	• Funding:	
	(1) Ugandan side: 720,000UGX for allowances, 46% of total	
	expenses	
	(2) Japanese side: 850,000UGX for transport costs and	
	refreshment costs, 54% of total expenses	
Achievement	• The User Trainers understood the work plan and how to write	
	reports.	

	ullet The User Trainers gained knowledge and skill on how to train other	
	medical equipment users.	
	• The User Trainers conducted UT in conjunction with the WS staff.	
	• The User Trainers had selected the target medical equipment	
	based on the inventory data that WS staff had collected.	
Way Forward/	• To enhance UT activities, it is important to encourage hospital	
Challenges	managers to realize the importance of the activities and secure the	
	budget for them. This can be done by holding continuous dialogue	
	with the WS managers and directors.	

1-2-4 Activities of Output 4

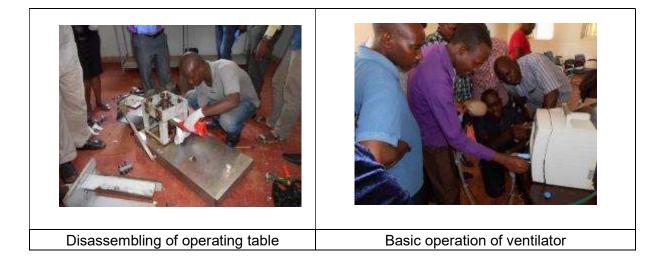
(1) Update and develop WS operation manuals, guidelines and monitoring tools (4-1)

Related to	Planned in May - December 2018	
activity 4-1		
Details	• The quick-reference user's guide to the basic operation of the New	
	Order for Managing Anything Data (NOMAD) system and	
	inventory data analysis, which was considered urgently needed,	
	was revised in July 2018.	
	• The existing WS Operation Manual published in December 2013	
	was not updated in time due to prioritizing the other activities such	
	as training, support supervision and the work related to the	
	equipment inventory management.	
Achievement	ullet The quick-reference user's guide has been updated and	
	disseminated at the WSs through support supervision.	
Way Forward/	 Although the WS Operation Manual is useful, the majority of WS 	
Challenges	staff do not read books/manuals due to a poor reading culture.	
	Therefore, it is a challenge to standardize the Manual at each WS.	
	 Based on discussions between MOH counterparts and the JICA 	
	Experts, the Project intends to rather prioritize the other important	
	activities than the revision of WS Operation Manual.	

(2) Training in Maintenance of Basic Medical Equipment

Related to	Planned in October - November 2018.	
activity 4-3		
Details	Date and Venue: 2nd - 5th October 2018 at Gulu RRH	
	● Targeted equipment: Five (5) items (Infant Incubator, Infant	

		esthesia Machine and Ventilator)	
	• Participants: 19 engineers and technicians of all the WSs		
	• Facilitators: One (1) lecturer from Makerere University and one (1)		
	service engineer from local distributor of target equipment.		
	 Objectives: To understand b 	asic operation, common mistakes,	
	essential maintenance and tro	uble-shooting of targeted equipment	
	through lectures and hands-on practice.		
	● Funding:		
	(1) Ugandan side: 11,951,000UGX for allowances, transport costs		
	and part of facilitators' fee, 67.4% of total training expenses		
	(2) Japanese side: 5,780,000UGX for facilitators' fee and		
	refreshment costs, 32.6% of total training expenses		
Achievement	• The results of the written test were 51% for the pre-test and 71%		
	for the post-test on average. The average score rose by 20%, and		
	improvement of knowledge was confirmed.		
	Scores (full-mark 100)	Pre-Test /100 Ø Post-Test /100	
	100 90 82 83 82 85 80 75 68 65 60 70 68 65 60 60 60 60 60 50 68 65 60 60 60 60 60 50 60 60 60 10 52 59 57 49 52 41 65 0 1 2 3 4 5 6 7 8 9	69 73 68 72 71 69 73 68 72 71 10 50 56 9 73 10 11 12 13 14 15 16 17 18 19 Average Participants	
Way Forward/	• The training results were ge	enerally good. However, the basic	
Challenges	knowledge on respiratory management (especially the anesthesia		
	machine and ventilator) was particularly low, and the training time		
	was not sufficient.		
	• As a good example of a hands-on session, the trainees were able		
	to disassemble the obsolete	operating table and learn technical	
	skills.	-	
	1		



(3) Training in Maintenance of Specialized Medical Equipment

Related to activity 4-3	Planned in September - October 2018.
Details	 Date and Venue: 19th - 23rd November 2018 at Gulu RRH Targeted equipment: Four (4) items (Ultrasound Machine, GeneXpert Machine, Infusion Pump and Syringe Pump) Participants: 24 engineers and technicians of the WSs Facilitators: One (1) lecturer from Makerere University and three (3) service engineers from local distributor of target equipment. Objectives: To understand basic operation, common mistakes, first-line maintenance and trouble-shooting of targeted equipment through lectures and hands-on practice. Funding: (1) Ugandan side: 14,512,000UGX for allowances, transport costs and part of facilitators' fee, 68.6% of total training expenses. (2) Japanese side: 6,630,000UGX for facilitators' fee and refreshment costs, 31.4% of total training expenses.

Achievement	• The results of the written test were 54% for the pre-test and 82%		
	for the post-test on average. The average score rose by 28%, and		
	improvement of knowledge was remarkable.		
	Scores (%)	Pre-Test (%) ØPost-Test (%)	
	90 91 92 90 80 79 80 79 70 79 60 79 50 70 40 70 30 70 1 2 3 4 5 5 67 54 58 65 63 7	90 91 91 89 90 86 89 87 90 80 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Average Participants	
	 Hiring the qualified facilitators was a key factor to the success of 		
	this training course.		
Way Forward/	• To avoid overlapping with the other partner's activities, the training		
Challenges	schedule was changed from October to November, but there was		
	no delay.		
	ullet To improve the efficiency of the training, a hands-on session was		
	held at two (2) locations simultaneously at Gulu RRH and a		
	neighbor's Private-Not-for-Profit (PNFP) Hospital "St. Mary's Lacor".		
	 To improve the training outcomes, all the trainees were requested 		
	to submit training reports and organize feedback sessions in their		
	workstations as a new system to be newly introduced.		
Basic maintenand	ce of GeneXpert	Basic operation of infusion pump	

(4) Support Supervision

activities 4-5 and 4-	
6	
Details	 The MOH counterpart and the JICA Expert carried out the following support supervision for 10 WSs including two (2) RRHs (Masaka and Mbarara). (1) 22nd - 26th October 2018 at Lira, Gulu, Arua, Hoima and Jinja. (2) 5th - 9th November 2018 at Masaka, Kabale, Mbarara, Fort Portal and Mubende. In Fort Portal, the supervision was carried out at the hotel near the RRH due to the outbreak of Crimean Congo Hemorrhagic Fever. Objectives: (1) Brief report from WS Manager and team discussions; Progress of ongoing CQI exercises Review of maintenance job cards and reports Inventory update and data entry in NOMAD system (2) Planning new CQI topic, if time is available (3) Way forward
	(4) Courtesy call to the Hospital Director/Administrator
Achievement	 The supervision on the CQI approach was smoothly implemented because both supervisors and the WS staff have been accustomed to the method through past activities. Progress of CQI being implemented in the WSs: Four (4) topics were developed, three (3) topics were partially implemented, and six (6) topics were not implemented. While implementing about half of the topics, CQI has been gradually adopted in all the WSs. CQI implementation will be continuously accelerated through this supervision. The reporting system is largely functioning well. However, there are some points that need to be improved, such as incompletion of filled-in Job Cards and improper storage of triplicated Job Cards. Inventory update and data entry in NOMAD were delayed and cannot be achieved due to various issues such as excessive workload of the WS Manager, delay of funds, lack of staff skills, PC failure, miscommunication and the habit of postponing work.
Way Forward/	• In the 1st supervision, an MOH counterpart paid his per diem by
Challenges	himself due to unsecured MOH funds. In the latter supervision, the fund deficiency was not resolved, and he was unable to participate.

and

the

It is necessary to request MOH funds earlier (recommended before two (2) months) and to fix the schedule of the project activities

• Regarding the delayed inventory update, the following actions are

- The next support supervisions will be focused on inventory

development partners will be strengthened through the WS

- In order to ensure active support from the RRH top

management including the NOMAD system.

- Collaboration among the MOH counterpart

before requesting MOH funds.

Performance Review Meetings.

to be considered:

management, the mentorship training for the RRH directors and administrators will be organized.

Joint meeting of UT and ME teams, Small training session for inventory data entry Mbarara RRH in NOMAD system, Jinja WS

(5) 21st WS Performance Review Meeting

Related to	Plan to hold the meeting at least twice a year (Year-round activity)
activity 4-5	
Details	 Date and Venue: 12th October 2018 at Hoima RRH
	 Participants: Approximately 40 people such as Hospital Directors,
	WS Managers, HID/MOH officials and implementing partners
	(Infections Disease Institute (IDI), four (4) area representatives of
	Regional Health Integration to Enhance Services (RHITES),
	American International Health Alliance (AIHA), Baylor Uganda and
	Project)
	Objectives:
	(1) Brief reports from the implementing partners
	(2) Review of minutes of previous meeting and matters arising

	(3) Presentation of performance reports for 1st and 2nd Quarter of	
	2018/19 by each WS Manager	
	(4) Key resolution/Recommendation	
Achievement	• This meeting has been progressing well as the main platform for	
	discussing key issues of the entire WSs as indicated in activities	
	4-5 and 4-6.	
	• It was the memorable meeting, as the directors of Masaka and	
	Mbarara RRHs attended this meeting for the first time and the in-	
	house WS Managers of both RRHs made presentations on their	
	work performances in the same way as the other WS Managers.	
	• It was also the first meeting, as all implementing Partners who	
	directly supported the WSs were able to participate.	
	• The managerial skills such as reporting, budgeting, work planning	
	and team building of WS Managers have gradually improved.	
	• The allowances and fuel costs of the participants were paid by the	
	respective WS budget. This is a good case showing sustainability.	
Way Forward/	 The WSs of Masaka and Mbarara will be upgraded to Regional 	
Challenges	WSs next fiscal year.	
	 The inventory update and data entry of NOMAD in all the WSs are 	
	going to be strengthened through mentorship of WS staff by	
	initiative of HID/MOH.	
	• A training session on the NOMAD system for the hospital directors	
	and administrators will be implemented in the next quarter	
	organized by HID/MOH in collaboration with IDI.	
	 It is expected that the coaching skills of Central Workshop and 	
	HID/MOH will be strengthened by the above-mentioned activities.	
	 The next meeting shall be hosted in Arua RRH in January 2019. 	

(6) Collaboration of development partner "IDI" functionalizing equipment inventory management system

Related to	Year-round activity	
activity 4-6		
Details	Meeting with a systems engineer of IDI on making the equipment	
	inventory management system more user-friendly.	
	• Date and Venue: 30th October and 1st November 2018 at Central	
	Workshop (CWS), Wabigalo	

Achievement	 The existing NOMAD software in CWS was updated. 	
	• The design of the NOMAD system was partially revised to make it	
	easier to use by the users, and some system bugs were resolved.	
	NOMAD software was installed on a laptop PC of a JICA Expert	
	and it was effectively utilized for on-site mentorship training at the	
	WSs through support supervision visits.	
Way Forward/	• To standardize the NOMAD system, the HID/MOH in collaboration	
Challenges	s with IDI will organize the training and mentoring session not only	
	for the WS staff but also for the RRH directors and administrators.	
	The support supervision visits to all WSs will be carried out by	
	HID/MOH with JICA Project.	

1-3 Achievement of Output

Summary of Achievements

Output1: MOH can capture the situation of the work environment and health infrastructure (medical equipment) in all RRHs through periodical Steering Committee meetings. The project activities play a critical role in effective management of health infrastructure in general. In terms of finance, while the MOH budget was not sufficient or available, the counterpart contributed towards the expenses for the activities of higher priority thus preventing delay. However, it is a challenge to transfer the content shared by the current Steering Committee to the official meeting body within MOH. The project will hold the Joint Coordination Committee as soon as possible to share the results of the activities and discuss allocation of the budget related to the project activities.

Output 2: Three (3) out of 16 target hospitals achieved the target as of June 2018, while six hospitals are expected to reach the target.

Output 3: The capacity of the User Trainers has been improved through the trainings and supervisions, and they were able to conduct trainings in the target hospitals as well as lower health facilities. Reduction of category status B equipment is still a challenge. The JICA Expert will select the status B equipment of each hospital on the previous inventory list, and provide guidance to the trainers.

Output 4: The capacity of medical equipment maintenance especially technical knowledge is improved through the past seven (7) times of the training on medical equipment maintenance, 5S-CQI and management. However, due to delays in medical equipment inventory updates, quantitative analysis at the midterm has not been completed. The management capacities of

the WS managers and senior technicians such as report writing, work planning and leadership have been improved through the biannual support supervisions, the quarterly WS Performance Review Meetings as well as great ownership of HID/MOH in securing funds and carrying out the activities as scheduled.

Due to a lack of contributions and delay of budget from MOH, some activities were rescheduled as well as changing the contents. Despite the challenges, the trainings were effectively and efficiently carried out.

1	-3-1	Output 1	
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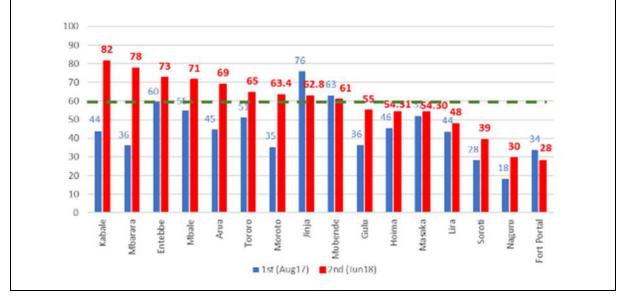
•	
Output 1	
Supporting/supervising system for health	infrastructure management of all the RRHs is
strengthened in the MOH	
Current Indicators	Achievement
1-1	The Steering Committee meeting was
The Project Steering Committee meeting	conducted on:
is conducted every three months.	1) 29th May 2018
	2) 17th September 2018
	3) 27th November 2018
1-2	The results of supervision were shared at the
The results of integrated support	Steering Committee meeting.
supervision conducted by Project	
Implementation Teams and the next	
quarter action plan developed from these	
results are shared and approved at every	
Project Steering Committee meeting.	
1-3	Not achieved.
The roadmap for incorporating the Project	The members of the Steering Committee will
activities into the policy and systems of	share the project achievements at the official
MOH is established and implemented by	meeting in the Ministry of the new fiscal year.
the Project Steering Committee.	
1-4	Not achieved.
The Project activities are successfully	Some funds related Project activities are
incorporated into the Ministerial Policy	expected to be allocated from departments in
Statement of Ministry of Health.	MOH from the new fiscal year.

1-3-2 Output 2

[PIT: 5S-CQI-TQM]

Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.

Current Indicators	Achievement	
(1) Score of Module 1 (Leadership) and 6	(1) Data was not available yet.	
(Health Infrastructure) Health Facility		
Quality of Care Assessment program		
(HFQAP) Facility Assessment Tool		
- All RRHs mark (i) 5 points out of 8 as full		
mark for module 1 and (ii) 6 points out of		
10 as full mark for module 6.		
(2) Score of modified 5S M&E Sheet in 5S-	(2) According to 2nd M&E of 5S performance,	
CQI-TQM Guidelines	nine (9) out of 16 target hospitals were	
- All RRHs mark 33 points out of 54 as full	above the target.	
mark at least two consecutive years.		
Results of 1st and 2nd M&E		



1-3-3 Output 3

[PIT: User Training]		
Proper utilization of medical equipment through UT is improved in all RRHs.		
Current Indicators	Achievement	
(1) There are at least two regional User	(1) There were 35 regional User Trainers at 14	
Trainers at all RRHs.	RRHs and one (1) GH.	

(2) The number of UT conducted by	(2) The standard format for counting the
regional User Trainers is more than	number of trainings conducted is not yet in
three as per year in every region.	place, however this will be formulated in the
	3rd quarter.
(3) The average percentage of medical	(3) Baseline in October 2016: 5.1%
equipment in status B at all RRHs is not	The inventory data is currently being
higher than 4%.	collected. Collection and analysis will be
	completed by May 2019.

1-3-4 Output 4

[PIT: ME maintenance]		
ME maintenance and management capacity of WS are strengthened.		
Current Indicators	Achievement	
(1) The average increase of scores	(1) 28.2%	
between the pre-test and post-test is at	(average score of seven (7) past trainings)	
least 15%.	The scores of the two (2) trainings	
	conducted during this period are as	
	mentioned below.	
	 Basic medical equipment: 20% 	
	 Specialized medical equipment: 28% 	
(2) The average of percentage of medical	(2) Baseline: 22.1% (C 17.9% + E4.2%)	
equipment in status C and status E at all	The inventory data is currently being	
RRHs is not higher than 15%.	collected. Collection and analysis will be	
	completed by May 2019.	

1-4 Achievement of the Project Purpose

Current Indicators	Achievement
(1) CQI Process or Quality Control (QC)	(1) Two (2) cases on the CQI theme were
Story	implemented.
-The number of cases of CQI Process or	
QC Story amounts to more than three.	
(2) Good practice of small CQI	(2) One (1) case in Entebbe GH, Arua RRH,
-All RRHs have at least one good	and Hoima RRH, Seven (7) cases in
practice of small CQI.	Kabale RRH

(3) The average of percentage of medical equipment in status A at all RRHs is higher than 70%.	 (3) Base line in October 2016: 65.19 (average) The inventory data is currently bein collected. Collection and analysis will b completed by May 2019. 			
(4) Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times.	(4) Joint supervision of UT and ME were conducted once in November 2018.			

In relation to the Indicator 3 for the Project Purpose, it is worth mentioning that the design of the NOMAD system was partially revised to make it user-friendly and the work will be expected to be completed soon. Since the inventory taking is an important task in medical equipment, the reform of NOMAD system will contribute to further effective management at all RRHs.

The Project side has provided opportunities to share work environment improvement through 5S and CQI activities in health facilities with health workers nationwide. It has created a big impact not only in target facilities but also other QI Implementing Partners.

1-5 Changes of Risks and Actions for Mitigation

The MOH budget release of the 1st Quarter of 2018/2019 was only 10% of the total quarterly budget. It was difficult to execute all project activities in the 1st Quarter as scheduled. MOH and the project team agreed to postpone the implementation of the 3rd Training of User Trainers, 5S Facilitator Training and 5S-CQI-TQM training to the 2nd Quarter of 2018/2019. The 5S Facilitators' Training and 5S-CQI-TQM Training were merged to save costs. However, concerning the Basic Medical Equipment Training that took place in October 2018 as scheduled, part of the costs for the training were covered by the Ugandan side.

1-6 Progress of Actions Undertaken by JICA

1-7 Progress of Actions Undertaken by the Government of Uganda

- The burden of activities funds between the Ministry of Health and Japan

MOH covered 12% (17,330,000UGX) in 2016/2017 and 10% (10,902,000UGX) in 2017/2018 for all the activities.

The expenses covered by MOH and Japan for the activities for the 2nd Quarter of 2018/2019 are shown below: MOH covered 63% (62,938,000UGX) for all the activities. Allowances and the part of transportation for the participants were covered by MOH, and the transportation, venues and refreshments were covered by the Japan side.

LIGX

Due to the contribution of the Project such as the early application of the budget, and public relations of the Project outcomes, the coverage rate of MOH has been increased compared to the past period. Increased funding from MOH can be interpreted as arising ownership which leads to the sustainable finding even after the completion of the Project.

										UGX
		мон				MoH		Japan side		
	Date		Activities	Trainees	Venue	Allowanc	е	Allowance		Total
		Dept.				/Others		/Others		
1 2018	8 Oct	HID	Bacic ME Training	19	Gulu	11,951,000	67.5%	5,765,000	32.5%	17,716,000
2 2018	3 Nov	CS	UT Supervision			720,000	45.9%	850,000	54.1%	1,570,000
3 2018	3 Nov	QAID	5S Facilitator Training	40	Mukono	22,200,000	72.3%	8,524,000	27.7%	30,724,000
4 2018	3 Nov	HID	Specialized ME Training	26	Gulu	14,512,000	64.9%	7,846,000	35.1%	22,358,000
5 2018	3 Nov	CS	UT 3rd TOT	21	Fort Portal	13,545,000	59.8%	9,114,000	40.2%	22,659,000
6 2018	3 Dec	QAID	5th QI Conference	7	Kampala			5,250,000	100.0%	5,250,000
	•		•	•	Total, %	62,928,000	63%	37,349,000	37%	100,277,000

1-8 Progress of Environmental and Social Considerations (if applicable)1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable)None.

- 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.)
 - (1) The project for the Improvement of Regional Referral Hospitals in Northern Uganda is a grant aid project run by the Japanese government. This project aims to strengthen hospital functionality by constructing facilities and providing medical equipment to northern Uganda hospitals (Arua, Gulu and Lira RRHs), and improving the quality and access to health services. JICA signed a grant agreement with the Government of Uganda to provide grant aid of up to 2.86 billion yen for this project on 26th of April 2018. The target facilities of the grant aid project include RRHs in this Project. It is expected to create a positive influence on health service delivery in the hospitals and the motivation of hospital staff to improve the workplace environment.
 - (2) RHITES is a 5-year project that has been operating since 2017, funded by the United States Agency for International Development (USAID). RHITES supports the Government of Uganda and key stakeholders to increase the availability and utilization of high-quality health services. The purpose of this project is to secure services to support the design and implementation of comprehensive, integrated investment in health especially at regional level, HIV/AIDS, and nutrition assistance in the whole area of Uganda. In terms of Quality Improvement, achievement of outcomes in the Project target facilities will be accelerated through human resource development done by the RHITES.
 - (3) Korea Foundation for International Healthcare (KOFIH) is a public affiliated organization of

the Ministry of Health and Welfare of the Republic of Korea. KOFIH has been active in Uganda since 2017 implementing various projects including establishing an emergency medical service system and community health system with MOH. KOFIH targets Bukomansinbi district and Masaka region. In the target area of KOFIH, the equipment and technology provided will contribute to improving the skills of the staff in the Project target facilities.

2 Delay of Work Schedule and/or Problems

2-1 Details, Cause

(1) Allocation of budget for project activities

MOH did not allocate night allowances for participants of the training and meeting organized by the Project in the 2017/2018. The Japanese side supported the activities for the last fiscal year as an emergency measure. The funds for allowance of participants from the new 2018/2019 were funded by MOH and covered about 60% of total costs. However, significant improvement in spending for the next quarter cannot be anticipated.

(2) The inventory input work is delayed due to the limited skills and shortage of manpower.

2-2 Action to Be Taken

- (1) The project implementation team meeting should be held immediately to discuss the content and timing of all activities commensurate with the size of the budget.
- (2) Steering Committee members are going to apply to the MOH budget technical working group to incorporate the project activity expenses into the new fiscal year budget.
- (3) The project team is going to cooperate with IDI in charge of the inventory system and train WS staff to improve input skills of inventory data.

3 Modification of Project Implementation Plan

II. Project Monitoring Sheet I & II as Attached

Attachment:

- I. Project Monitoring Sheet I
- II. Project Monitoring Sheet II
- III. Tanzania TOT Report
- IV. M&E results presented in Senior Management Committee on Oct 18th
- V. Progress of 5S Score at Target Hospitals
- VI. Abbreviations

Project Monitoring Sheet I

Project Title : Project on Improvement of Health Service through Health Infrastructure Management (II) Implementing agency: Quality Assurance & Inspection Department, Directorate of Planning & Policy, Ministry of Health (MOH) (5S-CQI-TQM) Integrated Curative Services Department, Directorate of Clinical Services, MOH (Utilization of Medical Equipment)

Infrastructure Department, Directorate of Clinical Services, MOH (Maintenance of Medical Equipment)

(1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe General Hospital (GH), Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, Moroto RRH, Mukuju HC IV, Tororo GH Target Group:

(2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital

Period of Project: July 2016- July 2020 Target Site: Republic of Uganda

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	
Quality of health care services at all the RRHs in Uganda is improved.	 Clients' satisfaction level is improved to the target level. (XX) Clients' waiting time of patients for consultation, testing, clinical examination, and prescription of drugs are reduced XX% Maintenance cost regarding medical equipment is decreased in XX%. 	Health Management Information System (HMIS) ·Annual Health Sector Performance Report (AHSPR) ·Periodical monitoring reports by QITs at target hospitals ·Supervision reports made by the steering committee for the project ·Baseline and end-line data ·Quarterly regional workshop maintenance report		
Project Purpose				
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH.	 (1) CQI Process or QC Story The number of cases of CQI Process or QC Story amounts to more than three. (2) Good practice of small CQI 	 (1)Report of CQI Process (e.g. Documentation Journal as an example of the format) (2)Report of small CQI or CQI support supervision tool (3) Medical equipment inventory (4) Minutes of steering committee meetings (5) Reports of steering committee 		(1) imi (2) se on sm imi (3) (av Th co co (4) co
Output 1				-
	(1) The Project Steering committee meeting is conducted every three	(1) Minutes of meeting of Project Steering Committee	·Personnel of counterparts do not leave the job	(1)
1. [Project Steering Committee] Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH.	 months. (2) The results of integrated support supervision conducted by Project Implementation Teams and the next quarter action plan developed from these results are shared and approved at every Project Steering Committee meeting. (3) The roadmap for incorporating the Project activities into the policy and systems of MOH is established and implemented by the Project Steering Committee. (4) The Project activities are successfully incorporated into the Ministerial Policy Statement of Ministry of Health. 	(2) Ministerial Policy Statement	and are not transferred considerably. •Policy related to health infrastructure management will not be changed as a result of the presidential election.	co No
Output 2				L
2.[Project Implementation Team: 5S-CQI-TQM] Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.	 (1)Score of module 1 (Leadership) and 6 (Health Infrastructure) HFQAP Facility Assessment Tool - All RRHs mark (i) 5 points out of 8 as full mark for module 1 and (ii) 6 points out of 10 as full mark for module 6. (2)Score of modified SS M&E Sheet in 5S-CQI-TQM Guidelines - All RRHs mark 33 points out of 54 as full mark at least two consecutive years. 	(1)HFQAP Facility Assessment Tool (2)5S M&E Sheet in 5S-CQI-TQM Guidelines		(1) (2) pe we
Output 3	-	•	•	
3.[Project Implementation Team: User Training] Proper utilization of medical equipment through UT is improved in all RRHs.	 (1) There are at least two regional user trainers at all RRHs. (2) The number of UT conducted by regional user trainers is more than three as per year in every region. (3) The average of percentage of medical equipment in status B at all RRHs is not higher than 4%. 	 Records on training of regional user trainers Training records on user training conducted by user trainers Medical equipment inventory 		(1) at (2) sco of Th Qu (3) Th co co
Output 4				_
4.[Project Implementation Team: ME maintenance] ME maintenance and management capacity of workshops (WS) are strengthened.	 (1) The average increase of cores between the pre-test and post-test is at least 15%. (2) The average of percentage of medical equipment in status C and status E at all RRHs is not higher than 15%. 	 (1) Results of pre and post tests for trainees of medical equipment maintenance (2) Medical equipment inventory 		(1) tra Th co me Ba Sp (2) co co

Version 5 Dated 25th February 2019

Attachment I

Achievement	Remarks
Two(2)CQI theme were selected and plementing in Kabale RRH. One(1) small CQI in Entebbe GH, ven(7) small CQI in Kabale RRH, e(1) small CQI in Arua RRH and one(1) iall CQI in Hoima RRH are plementing. Base line in October 2016: 65.1% <i>v</i> erage) e inventory data is currently being llected. Collection and analysis will be mpleted by May 2019. Joint supervisions of UT and ME were nducted once in November 2019.	
Steering Committee meeting were nducted in May, September and wember 2018. The results of Supervision was shared the Steering Committee meeting. Not achieved Not achieved	
Data was not available yet. According to 2nd M&E of 5S rformance, 9 out of 16 target hospitals re above the target.	
There were 35 regional User Trainers 14 RRHs and one (1) GH. Definition of UT and User Trainers' ope of work was clarified in 2nd Quarter 2018/2019. e number of UT will be collected in 3rd iarter of 2018/2019. Baseline in October 2016: 5.1%. e inventory data is currently being llected. Collection and analysis will be mpleted by May 2019.	
28.2% (average score of 7 past inings) e scores of the two (2) trainings nducted during this period are as entioned below. sic medical equipment: 20% ecialized medical equipment: 28% The inventory data is currently being llected. Collection and analysis will be mpleted by May 2019.	

Activities	Input	Pre-Conditions	
1-1 Establishment of foundation for the Project and implementation	The Japanese side	The Uganda side	
1-1-1 Establish Project Steering Committee	1. Dispatch of Experts	1. Assignment of Counterparts	
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	1) Chief advisor / QI Management System 2) 5S-CQI-TQM 3) Utilization of Medical Equipment	 Facilities Office space for Japanese experts 	
1-1-3 Develop Terms of Reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project	4) Maintenance of Medical Equipment 5) Project Coordinator/ Training Management	3. Administrative cost and other expense such as	
1-1-4 Conduct baseline survey		training and supervision	
1-2 Support Supervision on health infrastructure management	 Machinery and equipment Necessary supplies for 5S-CQI-TQM to target hospitals and 	4. Personnel cost for counterparts and other running	
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of SS-CQI-TQM facilitators at national and regional levels	MOH headquarters 2) Testing and calibration tools and equipment etc.	expenses (daily allowance and transportation expense)	
1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME	 Allocation of operational costs for project activities 		
1-3 Project implementation, monitoring and evaluation and institutionalization	4. Training in Japan and/or third countries		
1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle			
1-3-2 Conduct a meeting to review the established system in MOH			
1-3-3 Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections to the Ministerial Policy Statement			
1-3-4 Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure management compiling 5S, UT and ME			
1-3-5 Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME			<lssues and="" countermeasures=""></lssues>
2.[Project Implementation Team: 5S-CQI-TQM]			MOH contributed 24% of expenses of
2-1 Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide			activities since the Project was started.
2-2 Define criteria for national show case of 5S-CQI-TQM and review national show case(s)			 The Steering Committee meeting was held on 17th September and 27th November 2018. All
2-3 Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels			members shared situation of fund contribution
2-4 Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.			from MOH and Japanese side. •Two(2) CQI theme were developed in Kabale RRH.
2-5 Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI			درما. •CQI verification in target RRH will start in
2-6 Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities			March 2019.
2-7 Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI			 Inventory input and analysis will be started in February 2019.
2-8 Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and ME in collaboration with UT and ME activities under the direction of Project Steering Committee Activity 1-2-2			
3.[Project Implementation Team: User Training]			
3-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary			
3-2 Conduct refresher training of user trainers in the previous Project phase.			
3-3 Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals			
3-4 Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2			
4.[Project Implementation Team: Maintenance]			
4-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary			
4-2 Conduct leadership and management training for workshop managers including inventory data analysis			
4-3 Conduct training for workshop staffs on maintenance of basic medical equipment			
4-4 Conduct training for core staff of workshops in first line maintenance of specialized medical equipment			
4-5 Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops			
4-6 Support Workshops to develop a system for sharing knowledge and skills			

Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

	ct Title: Project on Improvement of	Plan	ith Serv	201		gn He	ealth li	nfrastr 20		Man	agem		11) 2018				2	019		I	2	020				Monit	oring
nputs		Actual		11		IV	I			IV	I		2010	II	IV				IV	1			IV	Re	emarks	Issue	Solution
xpart		Diam						1 = 1								1 1						1::	1 = :			ISSUE	Solution
Chief Adv	isor/QI Management System	Plan Actual	┢╋╧┿																							None.	None.
Assist Chi	ef Advisor/QI Management System	Plan Actual	FFFF																					_		None.	None.
5S-CQI-T	(Î) MQ	Plan																								None.	None.
5S-CQI-T		Actual Plan																								None.	None.
		Actual Plan	┢╋┿┿																								
	of Medical Equipment	Actual Plan	F																							None.	None.
	ace of Medical Equipment	Actual Plan	FFFF																							None.	None.
	pordinator/Training Management	Actual																								None.	None.
quipme	nt hicles and equipment/materials necessary for the Project	Plan																									
administra		Actual																								None.	None.
raining	in Japan	Plan			: :									:		: :											
		Actual																								None.	None.
n-counti	y/Third country Training																										
Tanzania	KAIZEN TOT	Plan Actual	┢╋┿┽	\rightarrow							\vdash	+										+		-		None.	None.
ctiviti	es	Plan	┢╋╧┷┷	201	16			20	17				2018		-		2	019			2	020	1 = :	Boong	o Organia-tia		
	Sub-Activities	Actual			III	IV				IV		II		II	IV				IV		II		IV	Responsible	le Organization	Achievements	Issue & Countermeasures
	roject Steering Committee] Supporting/supervisi	ng systen	n for healt	th infras	structure	manage	ement of	all the RF	RHs is stre	ngthei	ned in th	e MOH												Japan	Uganda		Countermeasules
1-1 Establi	shment of foundation for the Project and implementation	Blen																							All concerned		
1-1-1	Establish Project Steering Committee	Plan Actual	┢╋┿┽	+																				Expert(s)	Department	Project Steering Committee were established.	None.
		Plan	\vdash																						Members of MOH All concerned		
1-1-2	Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	Actual	\vdash																					Expert(s)	Department	Project Implementation Teams were established.	None.
	Develop terms of reference (TOD) for Project Stearing		┢╺╾╌┾																						members of MOH		
1-1-3	Develop terms of reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans																							Expert(s)		Work Plan was approved by Project Steering Committee.	None.
	for implementation of the Project	Actual																	_	_					Committee		
		Plan																						F (x)	Implementation	Situation analysis for all of	N1
1-1-4	Conduct baseline survey	Actual																						Expert(s)	Team	the targeted hospitals and workshops was conducted.	None.
1-2 Support	I supervision on health infrastructure management																										
· 2 ouppoi																										Progress of all activities	
	Review and revise existing supervision system and tools	Plan																							Steering	were shared in Steering	Supervision system will b
1-2-1	through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-																							Expert(s)		Committee meeting. And 10 additional National 5S-CQI-	discussed within QAID in consideration of HFQAP.
	CQI-TQM facilitators at national and regional levels	Actual																								TQM facilitators were trained.	
		Dian																									
1-2-2	Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice	Plan																						Expert(s)	Steering	CQI practices in RRH as well as Regional Workshop were	None.
	integrating 5S, user training and maintenance	Actual																						1 - 3-7	Committee	implementing.	
1-3 Project	I implementation, monitoring and evaluation and institutionalizatio	or			<u> </u>																						
,																										Draiget Stearing Committee	
1-3-1	Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented	Plan	\square																					Expert(s)		Project Steering Committee meeting was conducted in	None.
-	based on PDCA cycle	Actual																							Committee	May, September and November.	-
			┢╋┿┿																								
		Plan																							Steering	Project Steering Committee meeting was conducted in	
1-3-2	Conduct a meeting to review the established system in MOH	A																						Expert(s)	Committee	May, September and	None.
		Actual																								November 2018.	
	Make use of review of activity 1-3-2 for institutionalization of	Plan																								Progress of Project activities	
1-3-3	support supervision systems and methodologies developed through the Project, and make reflections if necessary to the		\vdash																_					Expert(s)	Steering Committee	were shared with Top	None.
	Ministerial Policy Statement	Actual																								Management Committee.	
																										Progress of 5S-CQI activities	
		Plan																								in target hospital was	
	Organize study tours and QI Conference to share good practice																									presented in Key note speech of 5th Quality	
1-3-4	and lessons learned on health infrastructure management		┢╋┿┽	\rightarrow							\vdash									+	+	$\left \right $		Expert(s)		Improvement Conference. And three(3) oral	None.
	compiling 5S, UT and ME																									presentations and four(4) poster presentations were	
		Actual																								conducted in the	
L																										conference.	
1-3-5	Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME	Plan Actual	┢╋┿┿	\rightarrow										-+										Expert(s)	Implementation Team		
L		Actual		<u>_: L</u>											:								1		rount	I	L

Attachment II

Version.	j	
Dated 25	h February	2019

Activiti	es Sub-Activities	Plan Actual	1	20 	016 III	IV	20	017 III	IV	1	 2018 III	IV	,	1	20 	19 III	IV	20	020 III	IV	Responsib	le Organization		Issue &
Output 2 [P	Project Implementation Team: 5S-CQI-TQM] Reso		agement							gh CQI ap			<u> </u>	•			IV	 		IV	Japan	Uganda	Achievements	Countermeasures
2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	Plan Actual																			Expert(s)	Implementation Team	5S-CQI-TQM guidelines drafted.	Conslutative workshop has not been held in a timely manner, due to lack of budget from MoH. To overcome this situation, Japanese side will cover th
2-2	Define criteria for national show case of 5S-CQI-TQM and	Plan																			Expert(a)	Steering	National showcase was clearly defined in draft 5S- CQI-TQM guidelines. 2nd M&E on SS is being	cost for the workshop. Conslutative workshop has not been held in a timely manner, due to lack of budget from Mol. To
2-2	review national show case(s)	Actual																			Expert(s)	Committee	done in May and June. 3rd M&E is being done in August 2018	budget from MoH. To overcome this situation, Japanese side will cover th cost for the workshop.
2-3	Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels	Plan																			- Expert(s)	Steering Committee	Qualification, role and responsibility was clarified in draft 5S-CQI-TQM guidelines.	Conslutative workshop has not been held in a timely manner, due to lack of budget from MoH. To overcome this situation,
2-4	Conduct leadership and management training based on the results of the baseline survey for management staff of targeted	Actual Plan																			Expert(s)	Implementation Team	The Leadership Improvement Seminar was	Japanese side will cover th cost for the workshop. None.
2-5	facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	Actual Plan																			Expert(s)	Implementation Team	conducted in Project term 1. National 5S-CQI-TQM facilitators revisited how to evaluate 5S at the kickoff	None.
2-6	Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	Actual Plan Actual																			Expert(s)	Implementation Team	meeting in May 2018. Experts and a local consultant supervised selected RRH in May and June 2018.	None.
2-7	Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI	Plan Actual																			Expert(s)	Implementation Team	Training of new national 5S- CQI-TQM facilitators and CQI training were conducted.	None.
2-8	Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and maintenance of ME in collaboration with UT and ME maintenance activities, etc. as mentioned in 1-2-2	Plan Actual																			Expert(s)	Implementation Team	Same as 2-6	None.
Output 3 [F	Project Implementation Team: User Training] Prop					-	 -		1													_		-
3-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	Plan Actual																			- Expert(s)	Implementation Team	The manual was proof read and corrected by User Trainers. The draft guideline was developed and confirmation by counter pert.	None.
3-2	Conduct refresher training of user trainers in the previous Project phase	Plan Actual																			Expert(s)	Implementation Team	No activity in this period	None.
3-3	Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals	Plan Actual																			Expert(s)	Implementation Team	The 3rd training of trainers was conducted on 26th - 30th November 2018 at Fort Portal RRH	None.
3-4	Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2	Plan Actual																			- Expert(s)	Implementation Team	Support supervision was conducted.	None.

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Image: Notice for the proving and any over the proving any over the	4.2	Conduct leadership and management training for workshop	Plan																						Evr
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s)	Implementation Team	Quick-reference users guide of NOMAD system was revised. WS Operation Manual was not updated in time due to prioritizing the other activities.	Manual update will be postponed and the other important activities will be prioritized.
s)	Implementation Team	No activity in this period	None.
s)	Implementation Team	Training was conducted as planned.	None.
s)	Implementation Team	Training was conducted as planned.	None.
s)	Implementation Team	Supervisions and WS Performance Review Meeting were carried out.	None.
s)	Implementation Team, all WS managers	Half of small CQI being implemented in WSs were achieved. Joint supervision with UT was carried out. Service sticker system were standardized. Collaboration with other development partners was strengthened.	None.
Re	emarks	Issue	Solution
Re	marks		Solution
Re	emarks	Issue The 3rd JCC postponed to Feburuary 2019.	Solution
Re	emarks	The 3rd JCC postponed to	Solution
Re	emarks	The 3rd JCC postponed to	Solution
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Attachment III-1



REPORT ON KAIZEN Training of Trainers for improving Hospital Management and healthcare Service, held in Assistant Medical Officer School, Mbeya - Tanzania

by

Beatrice Amuge Assistant Commissioner Nursing Service – Mulago NRH

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LIST OF ABBREVIATIONS

NRH	-	National Referral Hospital
QAID	-	Quality Assurance and Inspection Department
Ag SPNO	-	Acting Senior Principal Nursing Officer
JICA	-	Japan International Cooperation Agency
TQM	-	Total Quality Management
RRHs	-	Regional Referral Hospitals
МОН	-	Ministry of Health
QC	-	Quality Control
WIT	-	Work Improvement Teams
QIT	-	Quality Improvement Teams
HMT	-	Health Management Teams
CSD	-	Central Sterilization Department

ACKNOWLEDGEMENT

- The Ministry of Health through the Quality Assurance and Inspection Department (QAID) for having identified me for this important workshop
- The JICA Uganda for sponsoring us for this wonderful TOT
- The JICA Uganda, project coordinator for ensuring that we had a comfortable stay in Tanzania and traveled safely to and fro Uganda
- The facilitators of the TOT for taking us through the training with good understanding and a cordial atmosphere
- The Executive Director and Deputy Executive Director Mulago National Referral Hospital for having allowed me to attend this training
- Our fellow participants for a good interpersonal relationship and free sharing of experiences and ideas.
- The Ag SPNO and all the nurses of Mulago National Referral Hospital for the delivery of nursing services while I was away.

INTRODUCTION

The 5S-KAIZEN-TQM Approach is aiming at improving health care services at RRHs through strengthening managerial capacity of RRHs. One of the Project's expected output is to improve resource management and quality improvement in health care services of RRHs through KAIZEN Approach. In Tanzania 21 RRHs are practicing total 87 KAIZEN cases and Mbeya Zonal Referral Hospital is one of them. MoH - Tanzania is committed to enhance cooperation in terms of disseminating and strengthening 5S-KAIZEN-TQM Approach, and therefore, invites trainees from other countries which have already been implementing 5S-KAIZEN activities to KAIZEN Training of Trainers for Improving Hospital Management and Healthcare Services in their own organizations/countries. This invitation is extended to Uganda and this year 2018 two nurses were sent to participate in this very important training. One nurse is from Mulago National Referral hospital and the other from Kabale Regional Referral Hospital.

OUTLINE OF THE TRAINING

- The training was for five (5) days from November 12 to 16, 2018. Starting at 8.30 and ending at 5.00pm each day. Participants from Uganda traveled on 10th/11/2018 and returned on 18th/11/2018
- Training was done in Assistant Medical Officer School, Mbeya adjacent to Mbeya Zonal Referral Hospital

METHOD OF TRAINING

- Modified- Interactive Lecture
- Guidance
- Question and answer
- Classroom practical sessions
- Field visit
- Participants conducting recaps and wrap ups of the presentations at the beginning and at the end of each day.

Photograph 1: Participants being guided through the seven steps of KAIZEN



Participants from Uganda with the facilitator

Photograph 2: Participants on a classroom practical on 5S and use of tools



PARTICIPATING COUNTRIES

- 1. MoH and Regional Referral Hospitals in Tanzania
- 2. Uganda
- 3. Kenya

- 4. Burundi
- 5. Zimbabwe
- 6. Malawi

There were participants drawn from the MoH and three from each of participating Regional Referral Hospital in Tanzania. There were two participants from each of the four visiting countries.

TRAINING SESSIONS

DAY 1: SESSIONS 1, 2, 3, 4, 5 and 6

Session one:

Registration and introductions

Day one started with registration of participants and self-introduction by both the facilitators and participants.

Opening remarks

The workshop was opened by the representative of MOH of Tanzania. He welcomed participants to the workshop especially, those from neighboring countries of Uganda, Kenya, Burundi and Zimbabwe. He thanked the management of Assistant Medical Officer School for hosting the training and Mbeya Zonal Referral Hospital for being one of the model hospitals in Tanzania, being .used for training purposes of 5S-KAIZEN-TQM. He requested the participants to pay attention to the details during training to be able to do good implementation of 5S-KAIZEN-TQM in their respective hospital. He declared the five day training opened

Purpose of the training

The purpose is to equip the health professionals with positive attitudes and basic knowledge and practical skills on KAIZEN approach for improving:

- 1. Quality of health care provision
- 2. Hospital management (especially resource management)

Specific objectives

- 1. Recognize 5S-KAIZEN-TQM Approach as a tool for improving quality of health care services and hospital management
- 2. Identify current challenges in QI and hospital management
- 3. Describe what is KAIZEN mind
- 4. Describe implementation process of KAIZEN (Quick KAIZEN and KAIZEN with Quality Control (QC) story described properly)
- 5. Become an in-house trainer of 5S-KAIZEN at respective hospitals/organization

Pre-course Assessment

Day one had a pre-course assessment which was to check participants' knowledge on the 5S-KAIZEN-TQM in order to be able to asses effect of the training.

Brainstorming exercise

The participants were asked to brainstorm on what they need to improve quality of health care service provision in their hospitals. The aim was to check on the participants understanding of the concept quality and the responses which were given by the participants were used as a basis of discussions: The following were the responses:

- 1. Define internal and external customer needs
- 2. Constant availability of necessary equipment and supplies for quality services
- 3. Be punctual and responsible to the schedules of the activities
- To provide proper knowledge and skills on the concept and implementation of KAIZEN to WIT and QIT
- 5. Set standards through involving hospital management and clients using the existing resources
- 6. Change the mind set of health care workers in order for them to be able to implement 5S-KAIZEN-TOM
- Hospital teams should be working together from top to bottom for improvement of the working environment
- 8. Maximum utilization of the available resources
- 9. Proper use of data for evidence practice

Session Two and Three:

These sessions were on Total Quality management (TQM), Quality and safety. TQM is a multi-disciplinary and participatory process by all categories of staff for realizing high quality services and organizational optimization. TQM should be part of the institutional managerial frame work that looks at good service delivery and creates the value for patients. In TQM, the seven wastes should be prevented i.e. Overproduction, Inventory, Transportation, Motion, Rework, Over processing and waiting time.

Quality and safety is empathized because the type of the services delivered should meet the standards/specifications. The services should also meet or exceed customer expectations and prevent harm during the process of health care.

Session Four, Five and Six:

These sessions were on the concept of 5S, the tools used and roles/responsibilities of the Health Management Team (HMT) - Top Management, Quality Improvement teams (QIT) and Work Improvement Teams (WIT). The concept of 5S was introduced after the participants had appreciated the TQM, Quality and safety concepts. Quality Improvement starts from 5S for its successful implementation. 5S is a way of organizing and managing workspace and workflow (work environment improvement) with the intent to improve efficiency by eliminating waste to improving quality, productivity, safety, satisfaction and mistake proofing. It is a process of developing a system where the Sort-Set-Shine is done in a particular standard which is maintained through commitment and empowerment. Useful tools for effective 5S activity and how to improve safety, productivity, cost and Mistake proofing were emphasized. The roles and responsibilities of HMT, QIT and WIT on Quality Improvement were discussed.

DAY 2, 3 AND 4: Introduction to KAIZEN and the first 5 steps.

KAIZEN was introduced to the participant as a <u>"problem solving process"</u> with continual improvement of working practices and management for departmental optimization, towards Total Quality Managed Organization/Hospital. The come challenges encountered during implementation is negative attitude. KAIZEN is a Japanese ward meaning **KAI** - "Change" and **ZEIN** - "Improvement" (It means "**Change for the better**"). KAIZEN has two types (Quick KAIZEN and KAIZEN process with QC

story). The Quick KAIZEN is for non-complicated issues/problems and the solutions should be simple, quick and easy to implement with small amount of inputs. There is no clear demarcation between Quick KAIZEN and 5S activities. Quick KAIZEN is practiced thorough 5S activities without notice. The KAIZEN process with QC story is for solving complicated issues/problems, it is describe with valid data and has seven steps. It is Task-achieving type QC story - getting closer to the ideal situation and leads to setting standards. The KAIZEN mind is a positive mind, know that the work you are doing is yours not others and do what you can with maximum utilization of existing resources. Each of the 5 steps of KAIZEN process with QC story was discussed in detailed as separate topics with related practical sessions.

DAY 4: KAIZEN step 6, 7 with Practical and Introduction to Monitoring and Evaluation

The participants continued with the practical sessions of the KAIZEN process with QC story step 5, then later taken through step 6 and 7. Monitoring and Evaluation of 5S-KAIZEN-TQM Approach was introduced. The concepts Monitoring and Evaluation were discussed including their importance in 5S-KAIZEN-TQM Approach and the tools used. Summary of KAIZEN process with QC story seven steps shown below,

 Step 1 – Is the identification of the Quality Improvement problem, formulation of themes and

formulating a problem statement

- Step 2 Situation analysis (Getting contributing factors to that problem and deciding the data collection method) It involves prioritizing the contributory factors using the **Pareto Chart** based on the **80:20 rule**
- Step 3 Root cause analysis, unit members agree on the effect (head of a fish) then convert the effect to question form "Why does it happen to make Fishbone diagram
- Step 4 Identifying countermeasures , this includes feasibility check to determine whether the countermeasure are implementable
- Step 5 Countermeasures implementation , involves the formulation of work Plan with 5W1H (Why, Who, When, Where, What and How)

- Step 6 Checking of the effectiveness of the countermeasures for standardization
- Step 7 Standardization, this is declaring the effective and implementable countermeasures to be the standard practice or SOPs. The aim is to avoid the reoccurrence of the same problem

DAY 5: Practical session for step 6-7 and a visit to Mbeya Zonal Referral Hospital

Participants continued with class room practical session for KAIZEN process with QC story step 6 and 7. There was a visit to the four areas in Mbeya Zonal Referral Hospital to share experiences on the implementation of 5S-KAIZEN and also understand how to address some of the challenges encountered. The wards and units visited were: Ward 9 (Medical female ward), Central Sterilization Department, Radiology unit and the Disposal Unit for sorted Items

WARD 9 (MEDICAL FEMALE WARD)

Photograph 3: Emergency trolley in ward 9 and the use of 5S tools





Well labeled trolleys increasing proper space utilization, productivity, safety and avoid time wasting

Trolley check list

Photograph 4: Showing infection control methods using 5S tools



Hospital staff uniforms

Floor cleaning equipment labeled for specific areas and suspended off floor to avoid cross infection



Photograph 5:

X-Y axis on notice board in ward 9. Related information is put together and removal instructions indicated

CENTRAL STERILIZATION DEPARTMENT

Photograph 6a: Central Sterilization Department (CSD) at the entrance

Q

Controlled entrance for none staff for safety, mistake proofing and infection control



This increases productivity, safety and reduces time wasting

Photograph 6c: Central Sterilization Department, the equipment packing area



Checklist for packing equipment before autoclaving for efficiency, productivity, reducing cost and time wasting

Photograph 6d: Central Sterilization Department – sterile equipment with labeling and color visual tools



Visual control to avoid stocks out

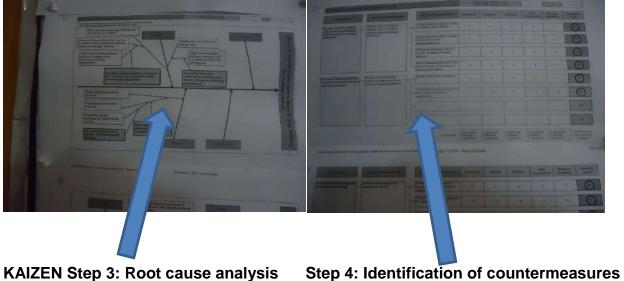
Labeled with the nature of the set, unit/ward number and expiry date for efficiency

Photograph 6e: stock cage in CSD

CSD stock from the hospital store with labels in a designated cage

RADIOTHERAPY UNIT

Photograph 7a: Implementing KAIZEN process with QC story



and checking their feasibility

		Implementation pl	an of the Joanital	le countermeasu T	res	1	Progress t	tonitoring of it
All,fensible countermeasures	WHO	WHAT	WHERE	(by) WHEN	WHY	HOW	When to Check (Date / Month / Ywar	Response person to monitoria
		Implementation pl	an of the feasibl	e countermeasu	05		Progress	nanitoring of i
All teasible countermeasures	WHO	WIAT	WHERE	(Dy) WHEN	WHY	HOW	When to Check (Date / Month / Year)	Responsi person f
dentify rasponsible person for preparing schedule/agenda for departmental meeting	Nakatwanga	Schedule /agenda on departmental moeting	At department	14/11/2018	To identify specific topic for departmental meeting	Discusing on meeting		GOH
Identity day of submitting agenda for departmental monting	Nakatwanga	Agenda	At department	14/11/2018	To identify specific topic for departmental meeting	Discusing on meeting		HOD
during meeting	Tanganyika	Managing time during meeting	At department	14/11/2018	To have a specific time frame for our departmenta meeting	Discusing on meeting		Нар
litheorthy disconstructions	RI HOB	Departmental routine	At department	28/11/2018	To put inorder al departmental rotine	Discusing on meeting		N.
Descentage front the respectively endowing the respective state of the sec-	RU HOD	Tool for monitoring mutine	At department	28/11/2018	To monitor adherence on departmental routine	Discusing on meeting	Ri	

Photograph 7b: Standardized procedure table

Step 7: Standardization of effective countermeasures after checking their effectiveness

THE DISPOSAL UNIT

Photograph 8: Sorted items from the wards and other Units/areas in the hospital



Resorting done here to identify the items which can be reused, repaired or written off for disposal

Common challenges shared and how to address

- Poor attitude and lack of KAIZEN mind to some peoples Addressed by team building and getting everybody get involved at every stage, having weekly meetings for the WIT with a proper book for minutes and distributing of responsibilities.
- Lack of knowledge and skills on 5S-KAIZEN –TQM Addressed by continues updates of old staff, training of new staff on the wards/units and orientation of the students who come for practicum.

Day 5: A post- course assessment

After the visit to Mbeya Zonal Referral Hospital participants were given a post-course assessment which was to check the effect of the training on the participants' knowledge. There was tremendous increase in number of participants who got 80% and above marks.

Day 5: Training closing ceremony

Training closing ceremony was preceded by the representative of the Director of Disease Control in the Ministry of Health – Tanzania. The facilitators nominated two participants to give remarks on behalf of the others participants. The following people were the speakers during the closing ceremony.

- A participant from Mbeya Zonal Referral hospital who represented participants from Tanzania
- A participant from Uganda (Beatrice Amuge) who represented the four visiting countries of Uganda, Burundi, Kenya, Malawi and Zimbabwe.
- The representative of JICA. He informed participant that the end of the training was the beginning of the long story Quality Improvement in our institution/hospitals.
- The workshop coordinator who after his remarks, invited the guest of honor to give her closing remarks
- The closed remarks were delivered by the representative of the Director of Disease Control in the Ministry of Health – Tanzania. She wished the visiting countries to come up and become among the countries to conduct Trainer of Trainer course on 5S-KAIZEN-TQM.

LESSONS LEARNT

- 1. 5S is the initial step towards establishing and successfully implement Total Quality Management (TQM).
- 2. There is no conflict in the implementation of 5S activities with other quality improvement approaches the organization/hospital is implementing. The 5S supports all quality improvement approaches to move forward.
- 3. Established Quality Improvement Unit is essential implementation and proper coordination of 5S-KAIZEN-TQM activities.
- 4. The WIT is very important in the implementation of 5S-KAIZEN. It is the backbone behind it. All the process of 5S- KAIZEN should be done by WIT using locally available resources

- 5. The ownership of the program by the institution/hospital management is very vital for formulation of shared policies and providing the needed resources especially for staff training.
- 6. 5S-KAIZEN-TQM concept, Monitoring and Evaluation methods should be implemented in rollout manner. It should start with few pilot units which will out as bench marking points for other units.
- 7. To have continues provision of technical support to the 5S-KAIZEN-TQM implementing units is very essential for sustainability.
- 8. The staff should have 5S-KAIZEN mind in order to eliminate negative Attitudes, use locally available resources and foster teamwork relationship.
- 9. Useful concepts in implementing 5S "3E" (Easy to see, Easy to take and Easy to return), "3F" (Fixed place, Fixed number and fixed items)
- 10.KAIZEN is spiral, continues and starts small then widens as the problems became complicated. The small problems are solved first and the resources are saved for complex and bigger issues to achieve Total Quality Management
- 11. Quick KAIZEN is for solving small problems, it should be implemented immediately and KAIZEN process with QC story is for solving complicated problems which should be supported with valid data/evidence. The complicated problems need the use of seven steps of problem-solving and QC tools for standardization.
- 12. In root cause analysis, the pointing of figure or tagging the root causes to particular people or individuals is not needed.
- 13. Quality Control is a story with connected or interrelated steps. (One step leads to the other and are implemented in a stepwise manner).

EXPECTED COURSE OUTPUT FROM THE PARTICIPANTS

Participants from Tanzania were given a different assignment. Each participant from Uganda, Burundi, Kenya and Zimbabwe is required to:

Submit a progress report on **5S-KAIZEN-TQM Approach** in the respective hospital. The title and the submission date was given.

- Title "Progress Report on 5S-KAIZEN-TQM Approach
- Period of submission: between 1st to 15th May 2019

APPENDICES

Appendix 1: Implementation plan for Mulago National Referral hospital

KAIZEN TOT REPORT

This training was held at Mbeya Zonal Referral Hospital from 12th to 16th November 2018. It was well organized and attended by various countries.

FACILITATORS

They were friendly, caring and well organized in a way that none of them left the training venue until the official closure of the training and could guide the different groups during practical sessions making the sessions easy to understand. They were committed and never left any participant behind making the training enjoyable. Iam very grateful to the organizers of this training, it was really wonderful.

VENUE:

It was very big enough to accommodate all the participants and the facilitators and well organized.

REFRESHMENTS:

Refreshments were very good, a good break tea, lunch buffet and drinking water during the sessions.

TRAINING CONTENT:

It was very relevant and helpful to our institution; this was symbolized by the presentation made by our organization/Hospital during the national annual quality improvement conference. Very many participants were embraced by the presentations.

LOGISTICS:

Thanks goes to M/s Onosoka Emi for being such a wonderful organizer; transportation was good and drivers were easy to identify as they bear our names at each airport and they were friendly and caring. We did not miss any flight and the journey was efficient and enjoyable.

The accommodation at both Dar es Salam and Mbeya were good, secure and the workers at both venues were hospitable and friendly. The perdiem and transport facilitation within Mbeya was enough.

CHALLENGES:

There was some confusion with foreign currency leading to unnecessary calls and creating doubts.

RECOMMENDATION:

In subsequent journeys, each individual should be given their own transport separately, this will help reduce confusions.

APPRECIATION:

I thank the JICA international agency for organizing and funding this training, and the ministry of health of the Republic of Tanzania for accepting to host us and ministry of health Uganda for granting us the permission. The organizers on both sides that is JICA Uganda and Tanzania. Thanks to my Hospital Director, Dr. Sophie Namasopo for choosing me for this wonderful and important trip and the SPNO Sr. Akurut Christine for releasing and choosing a member to cover my duties.

ACTION PLAN:

ΑCTIVITY	RESPONSIBLE PERSON	TIME FRAME	WHY	HOW	MEANS OF VERIFICATION
Submission/ sharing the TOT report: to the MOH/ JICA Office; top management; QIT and senior managers.	BAKO LILIAN	23/11/2018	To create harmony in implementation process of KAIZEN and have KAIZEN mind.	Through meetings/mai Is	Minutes of the meetings.
In house training for QIT	BAKO LILIAN/DR. SOP	27- 29/11/2018	They will help us in the subsequent in house trainings to the WIT and middle managers	Lecture/discu ssions	Training report and attendance list
In house training for the middle managers	The QIT	04- 06/12/2018	They are the managers of various departments in the institution and will help to promote the KAIZEN activities.	Lecture/discu ssions	Training report and attendance list.
In house training for the WIT leaders	The QIT	11- 13/12/2018	They are implementers of the KAIZEN Activities	Lecture/discu ssions	Training report and attendance list.
Training for other staff with 'KAIZEN Mind'.	The QIT	JAN, FEB, AND MARCH 2019.	They will help support implementation of KAIZEN activities.	Lecture/discu ssions	Training report and attendance list.
Implementation of KAIZEN Activities	QIT, WIT, and middle managers.	From 30 th November 2018 and continuous	To improve quality of services and achieve client satisfaction (both external and internal client).	By following the seven steps of KAIZEN.	Documentation sheet.
Monitoring and evaluation/feedback	QIT	From 30 th November 2018 and continuous	To keep activities on schedule and up to date	By use of M&E tools	Results of M&E in a designated file.
Report submission to JICA/MOH offices.	Quality improvement focal person	Monthly	Improves relationship and Bridges the gap between MOH/IMPLEMENTING partners and the institution	By use of mails and/or hard copies when the possibility allows.	File copies.
Report submission to Tanzania team.	Quality improvement focal person	After 6 months	Motivational feedback and analysis of how the training is helping various institutions.	By use of mails	File copies

KEY:



1. Introduction

MOH/JICA Project on Improvement of Health Services through Health Infrastructure Management II regularly monitors and evaluates performance of 5S activities at the target hospitals.

2

2. Methodology

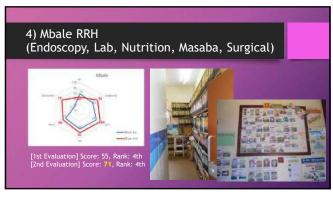
- 2 M&E tools: (1) Management/QIT: 18 questions
 (2) Unit or department: 18 questions
 Data collection by 16 5S-CQI-TQM facilitators in May-June 2018 6 evaluation criteria: (1) Management/QIT, (2) Leadership (WIT), (3) Sort, (4) Set, (5) Shine, and (6) Standardise
 Scores converted into 100 points as perfect.
 Target score: 60 points out of 100



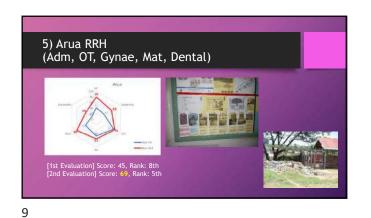






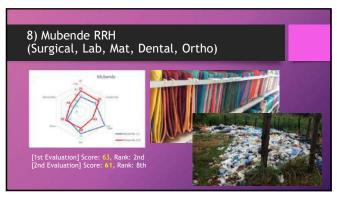


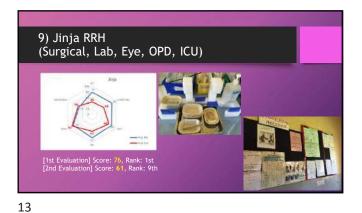
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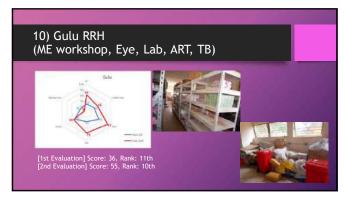


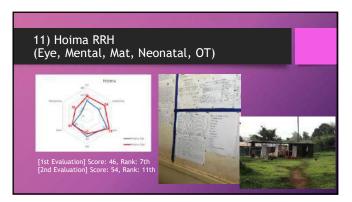


7) Moroto RRH (Surgical, Mat, Casualty, Lab, OT)



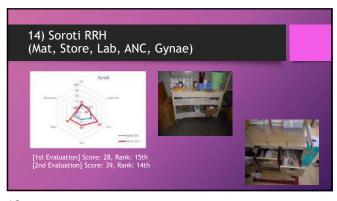


















	Performance ip of WIT <u>and</u>			
Hospital	Management/ QIT	Leadership of WIT	Standardise	Total
Kabale	89	88	69	77
Entebbe	81	68	76	70
Mbale	47	50	56	59
Arua	79	48	40	58
Mbarara	53	32	49	54

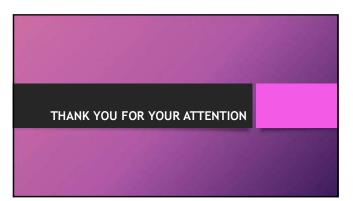
10+ Well-pe	erformed 5S Areas	
Hospital	No. of areas	No. of areas
позрітат	implementing 5S	scored >=60
Kabale	All areas	11
Entebbe	All areas	11
Mbale	All areas	16
Arua	All areas	3
Mbarara	23 areas/31	6

(3) Well-performed "Backyard"				
	Hospital	5S Score Medical Record	5S Score Main Store	
	Kabale	87	78	
	Entebbe	63	63	
	Mbale	63	39	
	Arua	39	43	
	Mbarara	28	46	

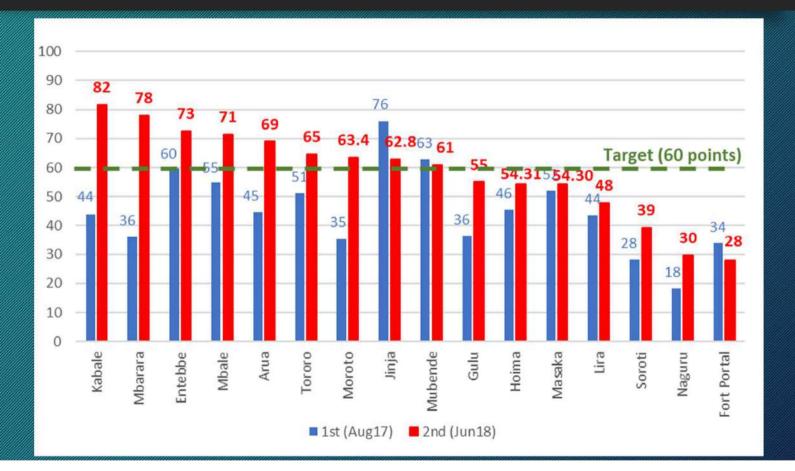
5. Next Steps

- Further extension of <u>excellent performers of 55</u>, including backyard like medical record and store
 Support hospitals to overcome their weakness
 Reinforcement of 3 items: management/QIT (realisation of commitment), function of WIT and Standardise (esp. use of S1-S3 checklist)
 Efforts to sustain excellent performance
 Keep CQI (KAIZEN) in mind for further movement

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Progress of 5S Score at Target Hospitals



Abbreviations

AIHA	American International Health Alliance
CQI	Continuous Quality Improvement
CWS	Central Workshop
GH	General Hospital
HFQAP	Health Facility Quality of Care Assessment Program
HID/MOH	Infrastructure Department, Ministry of Health
IDI	Infectious Disease Institute
JICA	Japan International Cooperation Agency
KOFIH	Korea Foundation for International Healthcare
M&E	Monitoring and Evaluation
MOH	Ministry of Health, Uganda
NOMAD	New Order for Managing Anything Data
PDM	Project Design Matrix
PIT	Project Implementation Team
PNFP	Private-Not-for-Profit
QAID	Quality Assurance and Inspection Department, Ministry of Health, Uganda
QC	Quality Control
QI	Quality Improvement
RH	Referral Hospital
RHITES	Regional Health Integration to Enhance Services
RRH	Regional Referral Hospital
RWS	Regional Workshop
TQM	Total Quality Management
USAID	United States Agency for International Development
UT	User Training
WS	Medical Equipment Maintenance Workshop

To CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 6 (Term: 1st January 2019 – 31st May 2019)

Name: Dr. Olaro Charles <u>Title: Project Director</u> <u>Name: Hiroshi Tasei</u> <u>Title: Chief Advisor</u> <u>Submission Date: 29th July 2019</u>

I. Summary

1 Progress and Achievements of Project

1-1 Progress of Inputs

[The Japanese side]

1-1-1 Dispatch of JICA Experts

The Japan International Cooperation Agency (JICA) Experts were dispatched on schedule. The list of experts is shown in the table below.

Nama	2019				Total	
Name	1	2	3	4	5	(days)
Hiroshi Tasei Chief Advisor/QI Management System①	95					95
Shizu Takahashi Vice Chief Advisor/QI Management System②				34		34
Naoki Take 5S-CQI-TQM①	61					61
Yujiro Handa 5S-CQI-TQM②			39			39
Yasuhiro Hiruma Utilization of Medical Equipment	108					108
Naoki Mimuro Maintenance of Medical Equipment	83					83
Emi Onosaka Project Coordinator/Training Management	91					91

1-1-2 3rd Joint Coordination Committee (JCC) meeting

The 3rd JCC meeting of the Project was held on 16th April, chaired by Ag Director General

Health Services, Dr. Henry Mwebesa. 7 Officials from Ministry of Health (MOH), 2 members from JICA Headquarters, 6 members from JICA Uganda Office, 1 member from Embassy of Japan, 14 top management members of target facilities and 2 members from Kawempe Referral Hospital (RH) were invited to the JCC meeting. The agenda was as follows: 1) overview of the Project operation budget, 2) presentation of the progress report from each pillar, and 3) discussion of countermeasures to be taken in the remaining period. Participants mainly discussed and shared: 1) appreciated the cost covered by MOH which approximately 50% of activities costs in the 3rd and 4th quarter of Financial Year (FY) 2018/2019 as shown 1-7, 2) the necessity of commitment for budgetary support for planned activities of FY 2019/2020 3) the necessity of MOH's involvement in the Project activities for sustainability purposes, 4) the necessity of more training on 5S with emphasis on Continuous Quality Improvement (CQI) for the hospitals, 5) the necessity of scaling out 5S-CQI and User Training (UT) activities to the lower-leveled facilities, and 6) the necessity of human resources for 5S-CQI-Total Quality Management (TQM) and UT.

1-1-3 Monitoring Mission for the Project from JICA Headquarters

The Monitoring Mission for the Project headed by Mr. Aoki Tsunenori, Director of Health team1 in JICA Headquarters, conducted monitoring of Project progress from 8th to 19th April 2019. The mission visited Fort portal Regional Referral Hospital (RRH), Mbarara RRH, Masaka RRH and Entebbe General Hospital (GH) as the target facilities to inspect the current situation of the Project activities.

[The Ugandan side]

1-1-4 Assignment of Counterparts

- 4 MOH Officials (Clinical Services, Nursing Department and Infrastructure Department, (HID/MOH)) carried out support supervision for Moroto RRH and Regional Workshops (RWS).
- (2) 18 National 5S-CQI-TQM facilitators were mobilized for the 3rd Monitoring and Evaluation (M&E) of 5S performance.
- (3) 2 National 5S-CQI-TQM facilitators took part in the 5S-CQI training for 4 hospitals in Kampala.
- (4) 2 MOH Officials participated in the meeting for UT Manual/Guidelines.
- (5) 2 User Trainers facilitated the final exam for additional User Trainers.
- (6) 1 MOH Official from Nursing Department and 4 User Trainers facilitated the 4th Training of Trainers (TOT) for User Trainers.
- (7) 1 MOH Official carried out support supervision for User Trainers.
- (8) HID/MOH carried out support supervision for RWSs.

1-2 Progress of Activities

1-2-1 Activities of Output 1

(1) Steering Committee Meeting

Related to activity	Planned in February and April 2019
1-3-1/1-3-2	
Details	 The Steering Committee meeting was held at MOH on 12th February. 5 MOH Officials, 5 Project members and 2 members from JICA Uganda Office participated in this meeting. The main objectives were: 1) to review the minutes of the discussions of the previous Steering Committee meeting and 2) to discuss the 3rd quarter of FY 2018/2019 budget for the Project activities.
Achievement	 The minutes of the discussions of previous Steering Committee were confirmed. Members were informed that the disbursement of the MOH budget in the 2nd quarter of FY 2018/2019 was 60% of the planned budget. All members agreed to conduct joint supervision for the 3 components (5S-CQI-TQM, UT and Medical Equipment Maintenance (ME)) for Moroto RRH and RWS, and to hold the 3rd JCC meeting in April instead of Steering Committee meeting.
Way Forward/	It is necessary to organize the next Steering Committee meeting
Challenges	 for review activities of the 4th quarter in FY 2018/2019 by the end of this financial year. The Project budget for each quarter shall be discussed at the beginning of each quarter and apply for the necessary funds for activities. The Project Implementation Teams shall monitor disbursement of funds for activities to avoid cancellation of activities.

(2) Joint supervision for Moroto RRH and RWS

Related to activity	Planned in Any time
1-2-2	
Details	• The joint supervision for Moroto RRH and RWS was carried out
	for the first time on 18th February 2019. 4 MOH Officials and 7
	Project members participated in this supervision.

Achievement	 The objective of this supervision was to observe the current situation of the 3 components (5S-CQI-TQM, UT and ME) and consider the plan for further implementation. All staff members in Moroto RRH and RWS appreciated the detailed Project activities through joint supervision and feedback meetings among all members.
Way Forward/	● 5S activities had been rolled out in all units in Moroto RRH and
Challenges	RWS. However, their performance stagnated based on the results
	of 3rd M&E. It is necessary to supervise them to promote training
	within the hospital and to implement the benchmarking visit (study tour) to Entebbe or Kabale.
	• UT activities are ongoing in Moroto RRH by User Trainers. As the
	number of User Trainers has been increased to 3, it is expected
	that UT activities at lower facilities will be implemented much more than before.
	 In ME component, medical equipment inventory updates and data
	entry in NOMAD for Moroto RRH and 3 lower health facilities need
	to be done by the end of June 2019. Also, it is necessary to develop
	an annual workplan for Moroto RWS involving the User Trainers
	and the implementing partners.
	 Each Project Implementation Team shall carry out regular support .
	supervision.

(3) TQM at Kabale RRH

Related to	January 2019
Activity: 1-3-5	

Details	•	Implementation of TQM commenced in March 2019 to improve the	
		usage of medical equipment, following the proposal from the Project.	
		JICA Experts carried out supervision in April and May.	
Achievement	•	Kabale RRH started the update of equipment lists per department	
		including the status of equipment functionalization.	
Way Forward/	•	It is necessary to provide continuous technical support from experts,	
Challenges		since it is the first exposure to TQM in Uganda.	

1-2-2 Activities of Output 2

(1) 3rd M&E of 5S Performance

Related to	March-April 2019	
Activity: 2-2		
Details	The Project allocated National 5S-CQI-TQM facilitators to 16 target	
	hospitals to collect the data on 5S performance in March 2019.	
	• The JICA Expert analyzed the data and shared the results with these	
	target hospitals, the facilitators and MOH.	
Achievement	• The target hospitals, 5S-CQI-TQM facilitators and MOH obtained the	
	information on the current performance of 5S.	
Way Forward/	• The inputs of the Project facilitated the completion of the 3rd M&E	
Challenges	exercise as planned. It is necessary to address challenges such as	
	the attitudes of some facilitators for the next M&E in 2020.	

(2) 5S-CQI Training for 4 hospitals in Kampala

Related to	Unplanned, since originally these hospitals are not covered by the			
Activity: 2-7	Project.			
Details	• In response to a request from Quality Assurance and Inspection			
	Department of MOH (QAID) and Mulago National Referral Hospital,			
	the Project trained 4 hospitals (Mulago, Women's and Neonatal			
	Hospital, Kawempe and Kiruddu) in 5S and the introduction of CQI			
	(KAIZEN) in May 2019.			
Achievement	 In total, 40 participants completed the training successfully. 			
Way Forward/	The inputs of the Project and the enthusiasm of the participants			
Challenges	resulted in the successful completion of the training. It is noteworthy			
	that 69% of the budget for training was covered by MOH.			
	• The Project will continue to support the initiative of QAID with			
	continuous supervision of these 4 hospitals.			

Related to	Started from June 2018.		
Activity: 2-6/2-8			
Details	 The following hospitals were supervised in Feb-May 2019: Moroto RRH (18th Feb.), Soroti RRH (19th Feb.), Lira RRH (20th Feb.), Gulu RRH (21st Feb.), Arua RRH (25th Feb.), Kabale RRH (18th Mar., 25th Apr. and 8th May), Mbarara RRH (19th Mar. and 7th May), Masaka RRH (20th Mar.) and Entebbe GH (22th and 29th May) 		
Achievement	 Moroto, Soroti, Lira, Gulu, Arua, Mbarara and Masaka: The Project provided advice for the improvement of 5S performance, especially in terms of leadership and standardization. Entebbe: The Project carried out coaching on situation analysis and tools for quality control. In addition, a format was proposed to record the practices of CQI (KAIZEN). Kabale: The Project provided technical advice on the effective implementation of CQI (KAIZEN) and TQM. 		
Way Forward/	• The results of the 3rd M&E should be utilized for the supervision of		
Challenges	the target hospitals, especially for the improvement of 5S at poor- performing hospitals.		

(3) Supervision of 5S-CQI-TQM

1-2-3 Activities of Output 3

(1) Development of UT Manual/Guidelines

Related to	Planned in June 2018-March 2019	
activity 3-1		
Details	• The interactive meetings were held several times at MOH on 5th	
	February to 31st May 2019. 2 MOH Officials, a JICA Expert and a	
	Secretary participated in the meetings.	
	• The main objectives were reviewing and editing the UT manual and	
	guidelines based on the User Trainer's comments.	
Achievement	The draft UT manual was completed.	
	• The UT guidelines were still under development.	
Way Forward/	• By the end of the 4th quarter of FY 2018/2019, both UT guidelines	
Challenges	and manual are going to be completed.	

(2) Final Exams for Additional User Trainer (Refresher Training)

Related to	Planned in April 2019	
activity 3-2		
Details	• A final written and practical exam for 5 additional User Trainers was	
	conducted at Entebbe on 16th and 17th May 2019. A JICA Expert	
	and 2 User Trainers facilitated the exams.	
Achievement	• 5 User Trainers passed the written exam.	
	• 5 User Trainers did the practical exams. All 5 additional User	
	Trainers were qualified.	
Way Forward/	• The 5 User Trainers need to have further practical experience as	
Challenges	User Trainers.	



(3) 4th TOT for User Trainers

Related to	Planned in February 2019		
activity 3-3			
Details	(1) The training of User Trainer Candidates was carried out at Gulu		
	RRH on 1st to 5th April 2019. The MOH Official from Nursing		
	Department and the JICA Expert and 4 User Trainers facilitated the		
	training. 5 User Trainer Candidates from 3 RRHs and 1 GH		
	participated in this training.		
	The objective of this training was to review the teaching skills of User		
	Trainers on the target medical equipment.		
	(2) The User Trainers' final exams (written and practical) were		
	conducted on 3rd to 5th April 2019 and were facilitated by the same		
	members as the above training. 13 User Trainers from the 7 target		
	RRHs took the exams.		
Achievement	(1) Training of User Trainer Candidates		

	- The results of the written test were 83.4% for the pre-test and 88.4%		
	for the post-test on average. The average improvement was 5%		
	compared with the pre-test, hence confirming the positive outcome of		
	the training.		
	- The trainers were also assessed on the practical test as reflected in		
	the result which was 4.09 (5.00 for full score) on average. The teaching		
	skills of 5 User Trainers were improved.		
	(2) User Trainer Final Exams		
	- 11 out of 13 User Trainers passed the exams. Although 2 User		
	Trainers failed the exams, they sat the exams again and passed.		
	- All 13 User Trainers passed the practical exams conducted.		
Way Forward/	• The 13 User Trainers are inexperienced and there is a need for		
Challenges	continuous training through support supervisions.		



(4) Support Supervision

Related to activity 3-4	Planned in September 2018- May 2020.		
Details	 The following hospitals were supervised in February - May 2019: Moroto RRH (18th Feb.), Arua RRH (4th Mar.), Lira RRH (5th Mar.), Mbale RRH (6th Mar.), Entebbe GH (7th Mar.), Kabale RRH (18th Mar.), Masaka RRH (20th Mar.), Mbarara RRH (29th Mar.), Fort Portal RRH (30th Apr.), Gulu RRH (6th May), Soroti RRH (7th May), Jinja RRH (8th May), Naguru RH (9th May), Mubende RRH (10th May). The main objectives were: 1) to check the implementation status of UT and the progress of the action plan, 2) to advise on the improvement of the utilization rate of the medical equipment, and 		

3) to check the work status of User Trainers' collaboration with the			
Medical Equipment Maintenance Workshop (WS).			
• The User Trainers conducted UT at the target hospitals and the			
lower health facilities.			
• As a result of UT, the utilization rate of medical equipment has			
improved.			
• Instructions and advice on the use of unused equipment were			
developed by User Trainers.			
• To seek the good collaboration between the Administration of the			
RRH and WS, the Project Implementation Team (UT) will raise the			
agenda at WS Performance Review Meeting, and discuss it at the			
hospitals			
• The Supervision team found that Fort Portal RRH and Mubende			
RRH did not provide financial support to User Trainers' activities			
properly. The Supervision team discussed with the Hospital			
administration the UT activity plan, necessary expenses for UT			
activities during supervision. The Project Implementation Team			
raised the issues to Clinical Services meeting and to discuss			
solution.			

1-2-4 Activities of Output 4

(1) 22nd and 23rd WS Performance Review Meetings

Related to	At least twice a year (Year-round activity)	
activity 4-5		
Details	• 2 WS Performance Review Meetings were held at Arua on 24th	
	January 2019 (22nd Meeting) and at Mbarara on 2nd May 2019	
	(23rd Meeting), and the attendance numbers of participants and	
	 stakeholders were 50 and 55, respectively. The main objectives were 1) communication from HID/MOH, 2) 	
	quarterly performance reports from each WS, 3) brief remarks from	
	the implementing partners, and 4) discussions, recommendations	
	and meeting resolutions. For the 23rd meeting, the following 3	
	topics were added; 5) proposed Quarterly Report, Job Card and	
	Complaint Form revisions, 6) preliminary results of RRHs' inventory	
	analysis and 7) awarding the high-performing WSs based on the	

	asses	assessment.	
Achievement		neetings have been put in place as the main platform for	
Acmevement			
	discussing key issues among the WSs and the RRHs' to		
	manag	management as related to activities 1-3-2, 4-5 and 4-6.	
	 Althout 	Although the meetings are required to be held twice a year, the	
	meetir	gs are held quarterly as scheduled.	
	• The 2	The 22nd meeting was the first meeting where all 14 RRHs	
	includi	including Naguru RH attended. At the 23rd meeting, it was also the	
	first tin	ne a User Trainer from Hoima RRH participated.	
Way Forward/	• The a	The allowances and transportation expenses were covered by	
Challenges	each WS budget. This is a good case showing sustainability even		
	after the Project completion.		
	 Althout 	Although the inventory updates and data entry in New Order for	
	Manag	Managing Anything Data (NOMAD) are progressing well, RRHs'	
	top m	anagement agreed that the remaining issues of collecting	
	data a	nd updating in NOMAD will be addressed.	
	• The ne	The next meeting will be hosted by Mbale RRH in August 2019.	

(2) Support Supervision for WSs

Related to activities 4-5 and	Twice a year (Year-round activity)
4-6	
Details	 All 15 WSs were supervised in February to March 2019; Arua (11th Feb.), Gulu (13th Feb.), Lira (14th Feb.), Soroti (15th Feb.), Moroto (18th-19th Feb.), Mbale (20th Feb.), Jinja (21th Feb.), Naguru (28th Feb.), Hoima (11th Mar.), Mubende (13th Mar.), Fort Portal (14th Mar.), Mbarara (15th Mar.), Kabale (17th Mar.), Masaka (20th Mar.) and Central (25th Mar.). The agenda focused on 4 areas; 1) accelerating inventory management including NOMAD database, 2) status of workplan, reports and templates, 3) follow-up on ongoing CQI activities and 4) implementation of UT. In Naguru, the first visit involving the joint supervision of 3 RHs (Naguru, Kawempe and Kiruddu) was carried out to discuss the current situation, because the 3 hospitals had newly established inhouse workshops under the Central WS area.

Achievement	• The Project and HID/MOH supervised all WSs as planned,			
	although the HID/MOH budget was limited.			
	• The above agenda items 1), 3) and 4) progressed in most WSs.			
	Progress of CQI being implemented in the WSs: 8 topics were			
	achieved, 2 topics are ongoing, and 2 topics have not progressed.			
	 Integration of 3 activities (5S-CQI-TQM, UT and ME) was 			
	strengthened because User Trainers and 5S manager attend WS			
	supervision. In addition, the TQM focusing on "To Improve Usage			
	of Medical Equipment" commenced in Kabale RRH and WS, as a			
	good showcase related to activity 2-8.			
Way Forward/	• It takes 3 weeks to travel over 3,500 km for all WS visits.			
Challenges	Sometimes it is difficult to adjust the counterpart's schedule.			
	• It is recommended that the Central WS manager joins the			
	supervision program in order to strengthen the capacity of the			
	Central WS indicated in activity 4-5.			
	<image/>			
	TQM, UT and ME CQI exercise, Moroto			
integrated	supervision, Jinja			

(3) Assessment of the WSs (4-1, 4-5, 4-6)

Related to		Unplanned, however it has been done once a year since October
activity 4-1	l, 4-5	2016.
and 4-6		
Details		HID/MOH and the Project revised WS assessment sheet from the
		previous one and assessed 14 WSs in February to March 2019
		while carrying out support supervision. The results were shared
		with stakeholders at the 23rd WS Performance Review Meeting.
		• The high-performing WSs were awarded using the criteria of 12
		identified areas including productivity, timely release of the
		budget, UT and CQI, in consideration with the Project goals.

Achievement	Based on the results (Refer to Attachment III), the 3 WSs were awarded as titled the "Best WS" for Fort Portal, "Sustaining Good	
	Performance and Teamwork" for Lira and the "Most Ir WS" for Jinja.	nproved
Way Forward/	This award system helps to maintain the willingne	ss and
Challenges	motivation of the WS engineers/technicians.	
	This system is being implemented once a year and is expected to	
	be done in February - March 2020, before the end of the	Project.
	The assessment sheet is one of the monitoring tools unde	r activity
	4-1, and it is related to enhancing the capacity of the Cer	ntral WS
	and HID/MOH in activity 4-5. This mechanism helps t	o share
	performance and issues, as requested for activity 4-6.	





The Best WS Award, Fort Portal Team The Most Improved WS Award, Jinja Team

(4) Medical Equipment Inventory Update and Analysis

Related to	Planned in February – April 2019		
activity 4-2			
Details	• The Project, HID/MOH, and Infectious Disease Institute (IDI) IT		
	team are constantly supporting the following:		
	-Coaching the WS staff members and troubleshooting NOMAD		
	malfunctions during supervision.		
	-A letter was issued from the MOH top management to RRH		
	directors to complete the task by June 2019.		
	-Solving defects, activating the auto-analysis function and		
	updating the format in web-based NOMAD.		
	-Installing NOMAD software in Masaka and Mbarara WSs.		
	-Held mentorship training for the RRH Directors and		
	Administrators in response to requests.		
	-Analysis of the latest inventory data for all RRHs.		

Achievement	• Data entry in NOMAD was completed in most WSs except
	Moroto, Soroti and Arua whose PCs were defected.
	• The inventory analysis report is as follows. The average of
	Condition A was increased (65.1% to 74.8%) in order to reduce
	Conditions B, C, D, and F from the baseline data, Year 2016.
	For the Project indicators, the Condition "A" and "B" were
	achieved in respective goals, but Condition "C+E" is not yet
	achieved. From another point of view, the gap between WSs is
	still large.
	• The web-based NOMAD design was improved and the auto-
	analysis function was activated to make it easier for users to use,
	and some system bugs were resolved.
Way Forward/	• The status of inventory management has improved significantly
Challenges	over time. However, a few WSs still require the strengthening of
	capacity and the replacement of PCs to solve the core issues.
	• In the near future, it is recommended that the data needs to be
	available for easy viewing and analysis on the website by the
	MOH Officials and RRHs' top management.

Table 1: Medical E	auinment Inventor	v Analysis Rei	nort of RRHs	April 2019
	quipment inventor	y Analysis Ne	port or rai a 13,	

No	Name of		Equip	oment Cor	ndition (%)			TOTAL	C+E
NO	RRH	A (>70%)	B (<4%)	С	D	E	F	TOTAL	(<15%)
1	Arua								
2	Gulu	91.1%	1.3%	3.5%	0.6%	2.5%	0.9%	100%	6.1%
3	Lira	81.7%	8.3%	3.0%	1.9%	3.1%	2.0%	100%	6.0%
4	Soroti								
5	Moroto								
6	Hoima	63.0%	4.2%	19.3%	3.4%	3.9%	6.2%	100%	23.2%
7	Fort Portal	95.7%	0.6%	2.8%	0.2%	0.7%	0.0%	100%	3.5%
8	Kabale	85.5%	4.8%	1.7%	1.9%	3.6%	2.4%	100%	5.3%
9	Mubende	83.9%	2.3%	6.6%	0.7%	4.1%	2.4%	100%	10.7%
10	Masaka	74.0%	1.7%	12.8%	5.7%	4.7%	1.1%	100%	17.5%
11	Jinja	60.4%	5.5%	17.7%	9.2%	4.9%	2.4%	100%	22.6%
12	Naguru	71.9%	8.2%	12.2%	0.4%	6.3%	1.1%	100%	18.5%
13	Mbale	61.6%	1.3%	30.4%	2.1%	2.5%	2.1%	100%	32.9%
14	Mbarara	66.9%	6.9%	6.9%	0.3%	15.7%	3.4%	100%	22.5%
(1	Average 1 out of 14)	74.8%	3.8%	12.3%	2.7%	4.3%	2.2%	100%	16.6%
Bas	eline (2016)	65.1%	5.1%	17.9%	3.5%	4.2%	4.3%	100%	22.1%

Baseline (2016)65.1%5.1%17.9%3.5%4.2%4.3%100%22.1%Note: Conditions A, B and C+E are used as performance indicators of the Project. Colored cells mean that the goals of each indicator have yet to be achieved.

Related to	Planned in May - December 2018			
activity 4-1				
Details	• Some articles and annexes of the WS Operation Manual were			
	revised from the existing Manual published in December 2013.			
Achievement	• The following documents were revised and/or newly developed;			
	• Performance report and templates (Job card and requisition			
	form)			
	-Consolidated annual work plan including partner's activities			
	-Assessment sheet for the WSs			
	-Equipment maintenance service sticker			
	-Users' guide on NOMAD usage			
	• Other texts were not yet updated due to the busy schedule of			
	the MOH counterpart and prioritizing other activities such as			
	support supervision and inventory management.			
Way Forward/	• Although solving the above issues is not easy, the Project will			
Challenges	continue to work on Manual revision in the remaining period. The			
	Project intends to prioritize other important activities rather than			
	Manual revision, based on discussions between HID/MOH and			
	the Project.			

(5) Update and develop WS operation manuals, guidelines and monitoring tools (4-1)

1-3 Achievement of Output

1-3-1 Summary of Achievements

Output 1: The Steering Committee members have discussed the efficient utilization of the budget. As the result of the discussion, MOH was able to contribute 60% of the total cost of the Project activities in the 2nd quarter of FY 2018/2019, compared with 8% in FY 2017/2018 and 12% in FY 2016/2017. Through the Steering Committee meeting, mutual understanding among the members was deepened, and improvement in the efficiency of activities for health infrastructure management such as progression of 5S-CQI activities in WS, cooperation between User Trainers and WS were accomplished.-The continuation of the meeting enables the formulation of an efficient action plan.

The Administration of all target facilities were invited to the 3rd JCC, in addition to JCC members, chaired by Director General Health Services. The progress of the activities, the contents of future activities in terms of leadership and continuity of activities by MOH, and the issues to be solved were shared among all the concerned persons.

Since the travel restrictions for the Moroto area were relaxed, the JICA Experts were allowed to travel there, together with Project Manager, and the Project Implementation Team members

from MOH. The Project Manager presented the Project history, the outline of the Project, and the policy of MOH towards the Project and appreciated importance and effectiveness of joint supervision. In addition, the Project manager pledged continuous support from MOH for the development of human resources for strengthening infrastructure management. All Japanese experts and joint supervision team met hospital staff members and were able to discuss their progress and issues, and encouraged Moroto RRH staff members to implement the Project activities.

Output 2: As described below, 7 out of 16 target hospitals reached the target and 2 hospitals have prospects to achieve it. The situation of the work environment in these hospitals is better year by year through the 5S practice, although the target of Output 2 is not achieved perfectly. It is necessary to continue supervision to keep momentum of the improvement. It can be said that the current performance is attributable to the activities under the Output. The supervision of 5S-CQI-TQM is a leading contributor of current performance. It provides opportunity for each hospital staff to reaffirm the problems specific to the section and offer the feasible solutions. The training of 5S-CQI-TQM Facilitators also played a role in their gaining of skills to supervise within their hospitals. The leadership training raised understanding of the top management on 5S-CQI-TQM, leading to better circumstances for the implementation.

Output 3: 14 out of 15 target hospitals reached the number of User Trainers, and the hospital have prospects to achieve it by the end of 2nd quarter of FY 2019/2020. 10 out of 15 target hospitals reached the number of UT implemented per a year and the remaining 5 hospitals are expected to be achieved by the end of the 4th quarter of FY 2018/2019. Although the average % of equipment Condition "B" (3.8%) has not been achieved, 6 out of 11 hospitals properly improved from the baseline (5.1%). According to this positive result, support supervision has greatly contributed to the development of trainers' knowledge and skills for the proper utilization of medical equipment and proper communication with the hospital management and collaboration with the WSs. Although the achievement of the outcomes is slightly behind the plans especially in inventory data, the Project Implementation Team (UT) will continue to support supervision and training to improve User Trainers' knowledge and skills, and develop the guideline for sustainability.

Output 4: Activities on the ME component were implemented as planned except for the manual revision. The leadership training scheduled in this period was canceled due to the HID/MOH budget shortage, but it was in line with the initial plan of FY 2018/19. Although the average % of equipment Condition "C+E" (16.6%) has not been achieved, it was properly improved from the baseline (22.1%). According to this positive result, the implemented activities have sufficiently

helped in the improvement of WS maintenance and management capacities. In addition, the work environment of most WSs was greatly improved by the 5S-CQI activities compared with the beginning of the Project. Support supervision was effective in solving the issues of individual WSs, and the WS Performance Review Meeting became the main platform for sharing information and discussing key issues. These activities can be sustained by the initiative of HID/MOH even after the Project ends. The above-mentioned activities are mostly harmonized and lead to the goals of Output 4 as planned. In addition, one of the indicators that has not been achieved will be accomplished with high probability by the end of the project through continuation of the Project activities.

-3-2 Output 1		
Output 1		
Supporting/supervising system for health	infrastructure management of all the RRHs is	
strengthened in the MOH		
Current Indicators	Achievement	
1-1		
The Project Steering Committee meeting	The Steering Committee meetings were	
is conducted every three months.	conducted on:	
	1) 29th May 2018	
	2) 17th September 2018	
	3) 27th November 2018	
	4) 2nd February 2019	
1-2		
The results of integrated support	All Steering Committee members shared the	
supervision conducted by Project	cost burden amount for each activity in the 2nd	
Implementation Teams and the next	and 3rd quarter of FY 2018/2019. And the	
quarter action plan developed from these	activity plan for FY2019/2020 was developed	
results are shared and approved at every	and agreed among the members.	
Project Steering Committee meeting.		
1-3		
The roadmap for incorporating the Project	The counterpart worked to incorporate the	
activities into the policy and systems of	Project activities into the budget of the next	
MOH is established and implemented by	financial year (2019/2020) at the Technical	
the Project Steering Committee.	Working Group meeting in early April.	
1-4		
The Project activities are successfully	The 3rd JCC was held on 16th April and shared	

1-3-2 Output 1

incorporated into the Ministerial Policy	the burden ratio of Uganda and Japan on the		
Statement of Ministry of Health.	Project activity cost in FY 2018/2019. Although		
	MOH will bear some part of the cost from		
	operational budget of each department, it has		
	not been clearly mentioned into the FY		
	2019/2020 budget.		

1-3-3 Output 2

•		
[Project Implementation Team: 5S-CQI-TQM]		
Resource management and quality improvement activities are strengthened through CC		
approach in all RRHs.		
Current Indicators	Achievement	
2-1		
Score of Module 1 (Leadership) and 6	MOH collected data from 10 target hospitals, and	
(Health Infrastructure) Health Facility	the score will be shared with the Japanese Expert	
Quality of Care Assessment program	soon after their analysis.	
(HFQAP) Facility Assessment Tool		
- All RRHs mark (i) 5 points out of 8 as		
full mark for module 1 and (ii) 6 points		
out of 10 as full mark for module 6.		
2-2		
Score of modified 5S M&E Sheet in 5S-	7 out of 16 target hospitals reached the target	
CQI-TQM Guidelines	(60%): Arua, Entebbe, Jinja, Kabale, Mbale,	
- All RRHs mark 33 points out of 54 as	Mbarara and Mubende.	
full mark at least two consecutive years.	2 hospitals have prospects to achieve the target	
	at the 4th M&E: Masaka and Naguru.	
	(See Figure 1)	

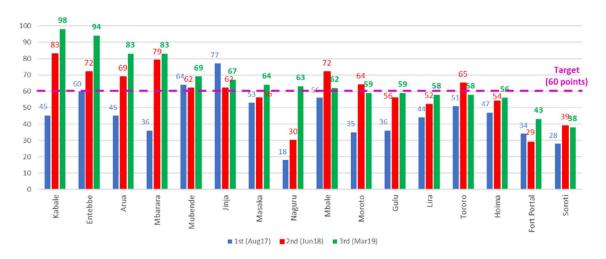


Figure 1: The results of 5S M&E by hospitals

1-3-4 Output 3

[Project Implementation Team: U	T]				
Proper utilization of medical equipr	ner	nt through UT is im	proved in all l	RRHs.	
Current Indicators	A	Achievement			
3-1					
There are at least two regional	N	Number of User Trainers are shown below: -			
User Trainers at all RRHs.			No. of User Trainers		
		Hospital Name	Qualified	Not yet qualified	
		Arua	3		
		Fort Portal	2		
		Gulu	2		
		Hoima	2		
		Jinja	2		
		Kabale	2		
		Lira	3		
		Maska	3		
		Mbale	2		
		Mbarara	1	1	
		Moroto	3		
		Mubende	2		
		Naguru	2		
		Soroti	2		
		Entebbe	3		
		Total	34	1	
3-2					

The number of UT conducted by	Number of UT are	shown I	pelow:-	
regional User Trainers is more	Hospital name	No.	Hospital name	No.
	Arua	2	Mbale	4
than three per year in every	Fort Portal	3	Mbarara	3
region.	Gulu	3	Moroto	3
	Hoima	1	Mubende	2
	Jinja	3	Naguru	4
	Kabale	5	Soroti	4
	Lira	1	Entebbe	4
	Masaka	1		
	*As of 31st May 2019			
	The ways of counting the number of UT;			
	-Group training (about 20 people, 4-6 types of			types of
	equipment) is counted as one training session.			n.
	-In the case of a si	mall trai	ning session, it is co	ounted as
	one when the tota	al numbe	er of participants or	pieces of
	equipment is equ	al to gro	up training.	
3-3				
The average percentage of	Baseline: 5.1%			
medical equipment in status B at	Current data: 3.8%	, D		
all RRHs is not higher than 4%.	all RRHs is not higher than 4%. (The details are shown in Table 1.)			

1-3-5 Output 4

[Project Implementation Team: ME]			
ME and management capacity of WS are strengthened.			
Current Indicators Achievement			
(1) The average increase of	28.2%: Target was achieved.		
scores between the pre-test (Average score of 7 past training sessions)			
and post-test is at least 15%.			
(2) The average of percentage of	Baseline: 22.1% (C17.9% + E4.2%)		
medical equipment in status C	Current data: 16.6% (C12.3% + E4.3%)		
and status E at all RRHs is not	The current data is the average of only 11 RRHs out of		
higher than 15%.	14 RRHs for reference. 3 RRHs such as Moroto, Soroti		
	and Arua has not been completed yet.		
(The details are shown in Table 1.)			

1-4 Achievement of the Project Purpose

The activities of each output greatly contributed to human resource development and work process improvement related to health services provision in each target facility even budget

constraints. As shown in the figure of the indicators, CQI cases according to the procedure were implemented, and the Small CQI for daily work process improvement was practiced not only in the hospitals, but also in the WSs. These cases were carried out in a standardized manner to ensure continuity, and the establishment of 5S activities was evident in the target facilities. In terms of health infrastructure management, the improvement of equipment inventory records came as a result of the close cooperation between WS and UT. In addition, activities called support supervision by the 3 Project Implementation Teams have been conducting and greatly contributed to the achievement of the Project purpose. The sustainability of health infrastructure management under MOH at the target facilities is going to be achieved. However, the budget execution to MOH from the Ministry of Finance, Planning and Economic Development is not on time. It hinders timely budget execution to each department in MOH. Delayed provision of budget is one of the challenges to conduct scheduled activities under the Outputs. To diminish the effects, each PIT requires to share the work plan and conduct some activities together.

Current Indicators	Achievement
(1) CQI Process or Quality Control	17 cases of CQI Process are being implemented and 2
(QC) Story	were completed at Kabale RRH. 3 cases of CQI
-The number of cases of CQI	Process are being carried out at Entebbe GH.
Process or QC Story amounts	
to more than three.	
(2) Good practice of small CQI	At least one case of small CQI was practiced at 12 out
-All RRHs have at least one	of 16 target hospitals: Entebbe GH, Gulu RRH, Jinja
good practice of small CQI.	RRH, Kabale RRH, Masaka RRH, Mbale RRH,
	Mbarara RRH, Moroto RRH, Mubende RRH, CUFH-
	Naguru, Soroti RRH and Tororo GH.
(3) The average of percentage of	Base line in October 2016: 65.1% (average)
medical equipment in status A	Current data: 74.8%
at all RRHs is higher than 70%.	(The details are shown in Table 1.)
(4) Supervisions on 5S, UT, and	Joint supervision of 3 components concerning health
ME which is integrated into the	infrastructure management was conducted 6 times in
system of MOH in a	November 2018 (1), February 2019, March 2019 (2),
consolidated way are	April 2019 (1) and May 2019 (2).
implemented more than XX	

	1
times.	

1-5 Changes of Risks and Actions for Mitigation

The budget execution of MOH has not been stable. Leadership/Management Training and the 3rd User Trainer Refresher Training have been postponed due to a lack of budget.

1-6 Progress of Actions Undertaken by JICA

JICA Headquarters dispatched the Monitoring Mission team for the Project headed by Mr. Aoki Tsunenori, Director, Health Team 1 in Human Development Department to conduct monitoring of the Project activities. The team discussed matters with Project Manager and related persons concerning the progress of the Project activities, and visited the target facilities to observe the situation. Under the situation of budget execution of MOH, JICA agreed that Japanese side would bear some part of the expenses according to the future activity expense plans, as long as MOH's financial sustainability would be secured.

1-7 Progress of Actions Undertaken by the Government of Uganda

The expenses covered by MOH and Japan for the activities in the 3rd and 4th quarter of FY 2018/2019 are shown below: MOH covered 55% (53,525,000UGX) for all the activities.

Although disbursement of the budget was delayed and some activities were postponed, the planned activities were generally implemented.

The increase in funding from MOH for the project activities showed that the outcome of the Project activities has been appreciated by MOH, which will lead to sustainable implementation.

		мон		Trainees/		MoH		Japan sid	de	
20	18/2019	Dept.	Activities	Participants	Venue	Allowan	ce	Transporta	tion	Total
		Dopt.				/Others	s	/others	3	
	Jan	HID	The 22nd WS Performance Meeting	55	Arua	18,775,000	100%	0	0%	18,775,000
	Feb/Mar	HID	ME-Supervision	1		660,000	20%	2,560,000	80%	3,220,000
Q3	Feb	QAID	5S-CQI-TQM Supervision	1		0	0%	1,155,000	100%	1,155,000
	Mar	CS	UT-Supervision	1		840,000	100%	0	0%	840,000
	Mar	QAID	3rd M&E	13		0	0%	16,996,000	100%	16,996,000
	Apr	CS	The 4th TOT	22	Gulu	2,497,000	14%	15,559,000	86%	18,056,000
	Apr	CS	UT-Supervision	1		0	0%	1,120,000	100%	1,120,000
Q4	May	HID	The 23rd WS Performance Meeting	59	Mbarara	18,200,000	90%	2,100,000	10%	20,300,000
	May	CS	Final Exam	5	Entebbe	350,000	10%	3,160,000	90%	3,510,000
	May	QAID	5S Training for Mulago+3RHs	40	Mukono	24,400,000	69%	10,875,000	31%	35,275,000
						65,722,000	55%	53,525,000	45%	119,247,000

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

1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable) None.

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.)

- (1) The project for the Improvement of Regional Referral Hospitals in Northern Uganda is a grant aid project run by the Japanese government. This project aims to strengthen hospital functionality by constructing facilities and providing medical equipment to northern Uganda hospitals (Arua, Gulu and Lira RRHs), and improving the quality and access to health services. JICA signed a grant agreement with the Government of Uganda to provide grant aid of up to 2.86 billion yen for this project on 26th April 2018. The target facilities of the grant aid project include RRHs. It is expected to create a positive influence on health service delivery in the hospitals and the motivation of hospital staff members to improve the workplace environment. The project implementation starts from June 2019.
- (2) Regional Health Integration to Enhance Services (RHITES) is a 5-year project that has been operating since 2017, funded by the United States Agency for International Development (USAID). RHITES supports the Government of Uganda and key stakeholders to increase the availability and utilization of high-quality health services. The purpose of this project is to secure services to support the design and implementation of comprehensive, integrated investment in health especially at the regional level, HIV/AIDS, and nutrition assistance in the entirety of Uganda. In terms of Quality Improvement, the achievement of outcomes in the project target facilities will be accelerated through human resource development done by RHITES.
- (3) Korea Foundation for International Healthcare (KOFIH) is a public affiliated organization of the Ministry of Health and Welfare of the Republic of Korea. KOFIH has been active in Uganda since 2017, implementing various projects including establishing an emergency medical service system and community health system with MOH. KOFIH targets the Bukomansinbi district and Masaka region. In the target area of KOFIH, the equipment and technology provided will contribute to improving the skills of the staff members in the project target facilities.

2 Delay of Work Schedule and/or Problems

2-1 Details, Cause

(1) Postponement of activity

The following activities were postponed due to a lack of budget:

- 1) Leadership and Management Training (Output 4)
- 2) The 3rd User Trainer Refresher Training (Output 3)

The budget has been partially implemented, but cannot be covered by MOH. From the perspective of the effective usage of the budget, priority was given to support supervision.

(2) Inventory of Medical equipment

The inventory updates are still delayed due to the limited skills, poor internet connections and PC defects. The analysis of the inventory data was completed for 11 out of 14 facilities.

- (3) Guidelines 5S-CQI-TQM and User Trainer
 - Although the draft of the 5S-CQI-TQM guidelines has been completed, the confirmation work within the ministry has not been completed. A retreat for the final draft will be held in June.
 - 2) UT Guidelines are being written by stakeholders.
- (4) HFQAP data

MOH conducted HFQAP assessment for 1,989 health facilities from 74 /127 districts (58.3%) and including 10 target hospitals.

2-2 Action to Be Taken

- (1) Each Project Implementation Team will continue their meetings. And MOH and the JICA Experts regularly hold Steering Committee meetings to share progress activities. At the same time, regularly check MOH's budget execution.
- (2) The Project team is going to cooperate with the IDI person in charge of the inventory system and train WS staff members to improve input skills of inventory data.
- (3) Draft of the guidelines will be submitted to Senior Management Committee meeting in July 2019, and are going to be finalized.
- (4) The Project team will discuss with QAID on the timing of future assessments of target hospitals yet conducted the HFQAP assessment, and arranged their assessment data as the project indicators.

3 Modification of Project Implementation Plan

II. Project Monitoring Sheet I & II as Attached

Attachment:

- I. Project Monitoring Sheet I
- II. Project Monitoring Sheet II
- III. Results of the WS Assessment.
- IV. Abbreviations

End

Project Monitoring Sheet I

Project Title:	Project on Improvement of Health Service through Health Infrastructure Management (II)		Version. 6
Implementing agency:	Quality Assurance & Inspection Department, Directorate of Planning & Policy, Ministry of Health	n (MOH) (5S-CQI-TQM)	Dated 29th J
	Integrated Curative Services Department, Directorate of Clinical Services, MOH (Utilization of I	Medical Equipment)	
	Infrastructure Department, Directorate of Clinical Services, MOH (Maintenance of Medical Equ	ipment)	
Target Group:	(1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebb	e General Hospital (GH), Hoima RRH, Kabale RRH, Aru	a RRH, Lira RRH, I
	(2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara F	RRH, Mubende RRH, Naguru Referral Hospital	
Period of Project:	July 2016- July 2020		
Target Site:	Republic of Uganda		
	Narrative Summary	Objectively Verifiable Indicators	Ach
		Olignate's action level is improved to the target	
		Clients' satisfaction level is improved to the target	
		•Clients' satisfaction level is improved to the target level. (XX) •Clients' waiting time of patients for consultation,	

Quality of health care services at all the RRHs in Uganda is improved.

Output 1

Project Purpose		
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH.	 (1) CQI Process or QC Story The number of cases of CQI Process or QC Story amounts to more than three. (2) Good practice of small CQI All RRHs have at least one good practice of small CQI. (3) The average of percentage of medical equipment in status A at all RRHs is higher than 70%. (4) Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times. 	RRHs)

are reduced XX%

decreased in XX%.

·Maintenance cost regarding medical equipment is

(1) The Project Steering committee meeting is (1) The Steerir conducted every three months. were conducte (2) The results of integrated support supervision to February 20 conducted by Project Implementation Teams and the (2) All Steering next quarter action plan developed from these results shared the cos are shared and approved at every Project Steering activities in the Committee meeting. 2018/2019. An (3) The roadmap for incorporating the Project activities FY2019/2020 into the policy and systems of MOH is established and among the me implemented by the Project Steering Committee. (3) The counte 1. [Project Steering Committee] (4) The Project activities are successfully incorporated incorporate the Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH. into the Ministerial Policy Statement of Ministry of budget of next Working Group Health. (4) The 3rd JC and shared the and Japan on FY 2018/2019 some part of th budget of each been clearly m 2019/2020 bud

July 2019

I, Moroto RRH, Mukuju HC IV, Tororo GH

Achievement	Remarks
f CQI Proces are being	
and 2 were completed at	
3 cases of CQI Process are	
out at Entebbe GH. e case of small CQI was	
2 out of 16 target hospitals.	
erage of 11 RRHs out of 14	
vision of 3 components	
alth infrastructure	
was conducted 6 times.	
ng Committee meetings	
ed 4 times during May 2019)19.	
g Committee members	
st burden amount for each e 2nd and 3rd quarter of FY	
nd the activity plan for	
was developed and agreed	
embers. erpart worked to	
e Project activities into the	
FY at the Technical	
p meeting in early April. C was held on 16th April	
e burden ratio of Uganda	
the Project activity cost in	
. Although MOH will bear he cost from operational	
h department, it has not	
nentioned into the FY	
dget.	

Output 2		
2.[Project Implementation Team: 5S-CQI-TQM] Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.	 (1)Score of module 1 (Leadership) and 6 (Health Infrastructure) HFQAP Facility Assessment Tool All RRHs mark (i) 5 points out of 8 as full mark for module 1 and (ii) 6 points out of 10 as full mark for module 6. (2)Score of modified 5S M&E Sheet in 5S-CQI-TQM Guidelines All RRHs mark 33 points out of 54 as full mark at least two consecutive years. 	 (1) MOH collecter hospitals, and the Japanese side (2) According to performance, 7 or reached the targ Jinja, Kabale, Mil Mubende. 2 hospitals have target at the 4th Naguru.
Output 3		
3.[Project Implementation Team: User Training] Proper utilization of medical equipment through UT is improved in all RRHs.	 (1) There are at least two regional user trainers at all RRHs. (2) The number of UT conducted by regional User Trainers is more than three as per year in every region. (3) The average of percentage of medical equipment in status B at all RRHs is not higher than 4%. 	(1) There were 3 at 14 RRHs and (2) 2.73 times (a training at 14 RF (3) 3.8% (average RRHs).
Output 4		-
4.[Project Implementation Team: ME maintenance] ME maintenance and management capacity of workshops (WS) are strengthened.	 (1) The average increase of scores between the pretest and post-test is at least 15%. (2) The average of percentage of medical equipment in status C and status E at all RRHs is not higher than 15%. 	(1) 28.2% (avera (2) 16.6% (avera RRHs).

cted data from 10 target the score will be given to side soon. to 3rd M&E of 5S 7 out of 16 target hospitals arget (60%): Arua, Entebbe, Mbale, Mbarara and ve prospects to achieve the th M&E: Masaka and	
e 35 regional User Trainers nd a GH. (average number of RRHs and a GH). rage of 11 RRHs out of 14	
erage of 7 past training). erage of 11 RRHs out of 14	Regarding (2), the inventories of 3 RRHs such as Moroto, Soroti and Arua have not been uploaded in NOMAD databases yet.

Activities	Input	
1-1 Establishment of foundation for the Project and implementation	The Japanese side	
1-1-1 Establish Project Steering Committee	1. Dispatch of Experts	
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	1) Chief advisor / QI Management System2) 5S-CQI-TQM	
1-1-3 Develop Terms of Reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project	 3) Utilization of Medical Equipment 4) Maintenance of Medical Equipment 5) Project Coordinator/ Training Management 	
1-1-4 Conduct baseline survey	2. Machinery and equipment	
1-2 Support Supervision on health infrastructure management	1) Necessary supplies for 5S-CQI-TQM to target	
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels	 hospitals and MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities 	
1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME		
1-3 Project implementation, monitoring and evaluation and institutionalization		
1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle		
1-3-2 Conduct a meeting to review the established system in MOH]	
1-3-3 Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections to the Ministerial Policy Statement		
1-3-4 Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure management compiling 5S, UT and ME		
1-3-5 Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME		
2.[Project Implementation Team: 5S-CQI-TQM]		
2-1 Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide		
2-2 Define criteria for national show case of 5S-CQI-TQM and review national show case(s)		
2-3 Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels		
2-4 Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.		
2-5 Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI		
2-6 Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities		
2-7 Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI		
2-8 Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and ME in collaboration with UT and ME activities under the direction of Project Steering Committee Activity 1-2-2		
3.[Project Implementation Team: User Training]		
3-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary		
3-2 Conduct refresher training of user trainers in the previous Project phase.	1	

3-3 Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals
3-4 Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI- TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2
4.[Project Implementation Team: Maintenance]
4-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary
4-2 Conduct leadership and management training for workshop managers including inventory data analysis
4-3 Conduct training for workshop staffs on maintenance of basic medical equipment
4-4 Conduct training for core staff of workshops in first line maintenance of specialized medical equipment
4-5 Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops
4-6 Support Workshops to develop a system for sharing knowledge and skills

Attachment I

Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

1puts	ct Title: Project on Improvement of	nean	in se		Plan	Jugn		2016	เลรแ				017	. (11)			2	018			20	019		1	2	2020		1		Mon	itoring
-					Actual					IV	I			IV			11		V		II		IV				IV	R	lemarks	Issue	Solution
xpert					Plan		T : :												:							1 : :					
Chief Ad	visor/QI Management System	_			Actual																							-		None.	None.
Assist C	ief Advisor/QI Management System				Plan Actual																							_		None.	None.
5S-CQI-	ΩM ①				Plan Actual																							-		None.	None.
5S-CQI-	`QМ ②		_		Plan Actual																							-		None.	None.
	n of Medical Equipment				Plan Actual Plan																							-		None.	None.
	nce of Medical Equipment				Actual Plan																							-		None.	None.
	oordinator/Training Management				Actual																							-		None.	None.
	ehicles and equipment/materials necessary for the Project				Plan																									None.	None.
administ raining	ation in Japan				Actual																										
	in oupan				Plan																									None.	None.
-count	ry/Third country Training				Actual																										
					Plan																									News	Neze
	KAIZEN TOT				Actual																									None.	None.
	es Sub-Activities	-1			Plan Actual	1		2016		iv	1	2	2017	IV	+	1	2	018	v	1	20	019 III	IV	+	2	2020	IV	Responsit	ole Organization	Achievements	Issue &
utput 1 [Project Steering Committee] Supporting/supervising	system	n for he	ealth in	frastruct	ture ma	nageme	ent of a	II the R	RHs is	streng	thened	in the N	юн														Japan	Uganda	Achievements	Countermeasures
1-1 Estab	ishment of foundation for the Project and implementation																											_	1 -		
1-1-1	Establish Project Steering Committee		0	0	Plan																							Expert(s)	All concerned Department	Project Steering Committee was established.	None.
					Actual												_												Members of MOH	Project Implementation	None.
1-1-2	Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME		000	0 0	Plan Actual																							Expert(s)	Department members of MOH	Teams were established.	None.
	Develop terms of reference (TOR) for Project Steering			0	Plan																									Work Plan was approved by	y None.
1-1-3	Committee and Project Implementation Teams and action plans for implementation of the Project		~		Actual																							Expert(s)	Steering Committee	Project Steering Committee	
			0	0	Plan										+														Implementation	Situation analysis for all of	None.
1-1-4	Conduct baseline survey				Actual																							Expert(s)	Implementation Team	the target hospitals and workshops was conducted.	
1-2 Supp	rt Supervision on health infrastructure management																											•	•		
	Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility		000	С	Plan																								Steering	Progress of all activities were shared in Steering	The Project team will discuss with QAID on he
1-2-1	Quality of Care Assessment Program) and allocation of 5S- CQI-TQM facilitators at national and regional levels				Actual																							Expert(s)	Committee	Committee meeting. 10 target facilities were	to cover the target hospi outstanding under the HFQAP.
																														assessed by checklist of Joint supervision of 3	None.
1-2-2	Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice		00		Plan																							Expert(s)	Steering	components was conducted in February, March, April	
1-2-2	integrating 5S, user training and maintenance				Actual																							Experi(s)	Committee	and May 2019. CQI practices in RRH as well as RWS were implemented.	
1-3 Proje	t implementation, monitoring and evaluation and institutionalization	+++	++																											KW3 were implemented.	
T O T TOJO	Organize meetings of Project Steering Committee every three				Plan																							1	1	Project Steering Committee	None.
1-3-1	months and review whether action plan is being implemented based on PDCA cycle				Actual																							Expert(s)	Steering Committee	meeting was conducted in February 2019.	
																														Project Steering Committee	None.
1-3-2	Conduct a meeting to review the established system in MOH		0		Plan									_														Expert(s)	Steering Committee	meeting was conducted in February 2019.	
					Actual																								Committee		
	Make use of review of activity 1-3-2 for institutionalization of				Plan																									Joint supervision of 3 components was conducted	None.
1-3-3	support supervision systems and methodologies developed through the Project, and make reflections if necessary to the							_																				Expert(s)	Steering Committee	in February, March, April and May 2019. MOH	
	Ministerial Policy Statement				Actual																									Officials participated in supervision and shared	
					Play																									methodology of supervision No relevant activity.	None.
1-3-4	Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure	000	000	50	Plan																							Expert(s)	Implementation Team		
	management compiling 5S, UT and ME				Actual																								roam		
1-3-5	Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME		0	0	Plan Actual										+													Expert(s)	Implementation Team	No relevant activity.	None.
1					Actual																								- Calli		

Attachment II

Version	. 6			
Dated	29th	July	2019	

tiviti	es Sub-Activities				Pla		1	2	016	I IV			20)17 	IV	-	1	2	2018 III	IV I	1	2	2019	IV	-	1	20	20 	I IV	Responsi	ble Organization		Issue &
but 2 [F	Project Implementation Team: 5S-CQI-TQM] Reso	urce	manaq	ement			provem	ent acti			_	d throu					Hs								_	•			1	Japan	Uganda	Achievements	Countermeasure
						<u> </u>							U																	Jupan		5S-CQI-TQM guidelines	The retreat to review the
2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide																								+					Expert(s)	Implementation Team	drafted.	draft guidelines will be h in June.
2-2	Define criteria for national show case of 5S-CQI-TQM and review national show case(s)				Pla	_																								– Expert(s)	Steering Committee	National showcase was clearly defined in draft 5S- CQI-TQM guidelines. 2nd M&E on 5S was done in May-June 2018, and 3rd	The definition of natior showcase will be revie at the above-mentione retreat.
2-3	Clarify qualification, role and responsibility of 5S-CQI-TQM	00			Pla																									Expert(s)	Steering	M&E was in March-April 2019. The results were Qualification, role and responsibility was clarified	The draft will be review the retreat.
	facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of	00			Action○ Plate	in																								Expert(s)	Committee Implementation Team	in draft 5S-CQI-TQM auidelines The Leadership Improvement Seminar was	None.
2-5	targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	00			 Act Pla 	in																								Expert(s)	Implementation Team	Conducted in Project term 1 National 5S-CQI-TQM facilitators revisited how to evaluate 5S at the kickoff	In order to upgrade facilitators' skills, an intensive training will
2-6	Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	00			Pla	in																								Expert(s)	Implementation Team	meeting in May 2018. Experts and a local consultant have supervised target hospitals.	planned for selected None.
		00			ActionPlate	-																										Training of new national 5S CQI-TQM facilitators and 5S training were conducted in	None.
2-7	Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI				Act	ual																								Expert(s)	Implementation Team	November 2018. In reply to initiative of MOH, 5S training was done for 4 hospitals in Kampala in May	
2-8	Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and maintenance of ME in collaboration with UT and ME maintenance activities, etc. as mentioned in 1-2-2			00	Pla Act	-																								- Expert(s)	Implementation Team	Same as 2-6	None.
put 3 [F	Project Implementation Team: User Training] Prop	per ut	ilizatio	n of m	nedical eq	uipme	ent thro	ugh UT	is imp	roved in	all RRH	l · · ·														: 1							
3-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary			00	O Pla																									Expert(s)	Implementation Team	The draft UT manual was composed. The draft UT guidelines are still being prepared.	None.
3-2	Conduct refresher training of user trainers in the previous Project phase		0	0	O Pla Actr	_																								Expert(s)	Implementation Team	The training was postponed due to shortage of MOH budget.	The contents of this will be integrated wi Trainers' training in
3-3	Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals			0	O Pla Actr																									Expert(s)	Implementation Team	The 4th TOT was conducted on 1st - 5th April 2019 at Gulu RRH.	None.
3-4	Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2			0	Pla Act	_																								Expert(s)	Implementation Team	Support supervision was conducted.	None.
put 4 [F	· Project Implementation Team: ME maintenance] N	/E ma	aintena	nce ai	nd manage	ement	t capaci	ity of w	orksho	ps (WS)	are stre	engthe	ened																• • •		•		-
4-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary			00	Pla	_																								– Expert(s)	Implementation Team	Quarterly Report, Job Card, Complaint Form, Annual Work Plan, assessment sheet an NOMAD user guide were revised and/or developed.	Other texts of the W Operation Manual a yet updated. Howev Project and HID/MC intend to rather prio other important acti
4-2	Conduct leadership and management training for workshop managers including inventory data analysis			0	 Pla Actual 																									Expert(s)	Implementation Team	No relevant activity	than the Manual re Training was cance to MOH budget sho but it was in line wi initial plan of FY 20
4-3	Conduct training for workshop staff on maintenance of basic			00	O Pla																									Expert(s)	Implementation	No relevant activity	None.
4-4	medical equipment Conduct training for core staff of workshops in first line			0		ın																								Expert(s)	Team Implementation	No relevant activity	None.
4-5	maintenance of specialized medical equipment Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops			0	Pla	in																								Expert(s)	Team Implementation Team	Capacities for supporting the Regional WSs were strengthened through executing the supervisions and WS Performance	None.
4-6	Support Workshops to develop a system for sharing knowledge and skills			00	Pla																									- Expert(s)	Implementation Team, all WS managers	Review Meetings Two WS Performance Review Meetings were held NOMAD was improved significantly. Report on WS assessment was shared and the high performing WSs were awarded. These	None.
					Act	ual																										mechanism helps to share performance and issues.	

Duration / Phasing	Plan																					
puration / Phasing	Actual																					
	Plan		20)16		1		2017		-	2018	-	2019			2	020		1			
Ionitoring Plan	Actual	1	1		IV				IV					IV	1	1		IV	- F	Remarks	Issue	Solution
onitoring																						
Joint Coordinating Committee	Plan																					
	Actual																					
Set-up the Work Plan of Operation	Plan																					
	Actual																					
Submission of Monitoring Sheet	Plan																					
	Actual																					
Monitoring Mission from Japan	Plan																					
	Actual																					
Joint Monitoring	Plan																					
	Actual																					
Post Monitoring	Plan																					
	Actual																					
eports/Documents																						
Brogross report	Plan																					
Progress report	Actual																					
Project Completion Report	Plan																					
Project Completion Report	Actual																					
ublic Relations																						
	Plan																					
	Actual																					
	Plan																					
	Actual																		1			

Re	Report on Assessment of Regional Workshops, FebMar. 2019	ps, F	ebN	lar. 2	2019							، بر)(
	Scoring Criteria: 3: Good, 2: Fair, 1: Poor/low, 0: Not Performed	Perfor	med.							NIN N	HITY III IO VI	5S-CC			CA
No	No PERFORMANCE INDICATORS	Central	Mbale	Soroti	Lira	Gulu	Arua	Portal Hoima	Fort	M ubende Kabale	Moroto	Jinja	Masaka	Mbarara	Average score
1	Available WS staff for ME maintenance	æ	2	2	m	m	m	m	m	2 3	ε	2	m	1 (a)	2.6
2	Timely release of WS budget to WS team and allocative efficiency	2	2	2	m	m	2	_ س	1 (b, c)	1.5 2	2	1 (d)	(a)	2	2.0
m	ME inventory properly updated and data entered in NOMAD <u>*double score</u> (full mark: 6)	3	(t) (t)	4	9	m	m	9	9	2 6	2	ъ	2	2	3.6
4	Job cards and Complaint forms properly prepared and used	2	£	£	2	ε	ε	ε	m	3 2	ε	2.5	2	3	2.7
ъ	Productivity: No. of job cards raised / No. staff involved per guarter >=50				2		1 (b,g)			I	0 0 (b, g, i) (b, g)	<u>۳</u>	2	с ц	2.0
9	Adequate spare parts purchased in timely manner	86.9 2	45./ 2	1 (h)	2.45	2 2	~	33.8 4	<u>49.2 62.</u> 3 2	<u>v</u>	2 2	2	41.5 2	50 2	2.1
7	Planned Preventive Maintenance periodically carried out for Lab. equipment and other selected equip	°.	1.5	e co	m	1 (e)	2	2	m	2 2	2	ε	2	3	2.3
∞	Routine maintenance carried out at least once a quarter for all hospitals and HCIVs	2	2	2	m	m	m	2	m	2 2	2	2	5	2	2.3
6	User training planned for and conducted using WS budget	с	m	2	m	5	2	2	5	е С	1 (b, k) 3	1 (i)	m	2	2.3
10	Availability of integrated Workplan and budget developed by WS staff and RRH management	æ	1.5	m	2	2	1 (e, i)	2	m	3 2	2	5	m	2	2.3
11	Timely submission of Quarterly WS progress Reports	ε	m	m	m	m	2	m	m	33	(e) 2	2	m	æ	2.6
12	Teamwork and continuous implementation of CQI activities in the WS	1 (e, i)	2	æ	æ	æ	1 (e, i)	2	m	3 2	е	2	2	2	2.3
	TOTAL (Full-mark:39)	30	24	31	35	30	26	33	35 29	29.5 25	5 26	27.5	27	27	29.5
	TOTAL % (score/39 x 100)	77%	62%	79%	%06	77% (67% 8	85% 9	90% 7(76% 64%	% 67%	71%	69%	69%	74%
	Previous TOTAL %	81%	64%	78%	92%	58%	78% 6	67% 9	92% 8(86% 78	78% 50%	33%	•	-	71%
	Increment (%) from previous score	-4%	-2%	2%	-2%	19% -	-11% 1	18% -	-2% -1	-10% -14%	% 17%	37%	•	-	3.9%
[NOT (e) Lc	[NOTE] (a) WS has not been elevated to regional WS yet. (b) GOU budget comes late. (c) Discrepancy of budget allocation in relation to HID recommendation. (d) Low accountability. (e) Low awareness. (f) Waiting stickers "A-F" before start collecting inventory. (g) Lack of spare parts. (h) No Framework Contract. (i) Poor communication/ teamwork. (k) Budget is too small.	t comes ory. (g) l	late. (c) ack of sp	Discrep pare par	ancy of l ts. (h) N	budget a o Frame	Discrepancy of budget allocation in relation to HID are parts. (h) No Framework Contract. (i) Poor con	in relati ntract. (i	on to HII) Poor co	D recom	recommendation. hmunication/ team	n. (d) Lov mwork.	(d) Low accountability. work. (k) Budget is too	itability. et is too	small.

Abbreviations

CQI	Continuous Quality Improvement
FY	Financial Year
GH	General Hospital
HFQAP	Health Facility Quality of Care Assessment Program
HID/MOH	Infrastructure Department, Ministry of Health
IDI	Infectious Disease Institute
JCC	Joint Coordination Committee
JICA	Japan International Cooperation Agency
KOFIH	Korea Foundation for International Healthcare
ME	Medical Equipment Maintenance
M&E	Monitoring and Evaluation
MOH	Ministry of Health, Uganda
NOMAD	New Order for Managing Anything Data
QAID	Quality Assurance and Inspection Department, Ministry of Health
QC	Quality Control
RH	Referral Hospital
RHITES	Regional Health Integration to Enhance Services
RRH	Regional Referral Hospital
RWS	Regional Workshop
TOT	Training of Trainers
TQM	Total Quality Management
USAID	United States Agency for International Development
UT	User Training
WS	Medical Equipment Maintenance Workshop

To the CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 7 (Term: 1st June 2019 – 31st December 2019)

Name: Dr. Olaro CharlesTitle: Project DirectorName: Hiroshi TaseiTitle: Chief AdvisorSubmission Date: 26th February 2020

I. Summary

1 Progress and Achievements of Project

1-1 Progress of Inputs

[The Japanese side]

1-1-1 Dispatch of JICA Experts

Name				2019				Total
мате	6	7	8	9	10	11	12	(days)
Hiroshi Tasei Chief Advisor/QI Management System①				73			72	145
Shizu Takahashi Vice Chief Advisor/QI Management System②							31	31
Naoki Take 5S-CQI-TQM①			58				74	132
Yujiro Handa 5S-CQI-TQM②							24	24
Yasuhiro Hiruma Utilization of Medical Equipment							118	118
Naoki Mimuro Maintenance of Medical Equipment							89	89
Emi Onosaka Project Coordinator/Training Management			82				68	150

1-1-2 Procurement of Desktop Computers for Regional Medical Equipment Maintenance Workshops

Seven sets of desktop computers were procured by Japanese side for Moroto Regional Workshop (RWS), Soroti RWS, Arua RWS, Mubende RWS, Masaka RWS, Mbarara RWS and Central Workshop.

These computers are exclusively used for data entry for the New Order for Managing Anything Data (NOMAD) inventory system.

[The Ugandan side]

1-1-3 Assignment of Counterparts

- (1) Three officials from Uganda's Ministry of Health (MOH) (Director of Health Services, Curative Services; Director of Health Services, Health Governance Regulation; and Commissioner of Clinical Services) participated in a Benchmarking Visit to Kabale RRH in November 2019.
- (2) Two MOH Officials (Commissioner of Clinical Services and Senior Nursing Officer) participated in the Validation Meeting for User Training Guidelines in November 2019.
- (3) One MOH Official (Senior Nursing Officer, Nursing Department) carried out support supervision for User Trainers in September and November 2019.
- (4) One MOH Official (Senior Nursing Officer, Nursing Department) facilitated a User Trainer workshop in October 2019.
- (5) One MOH Official (Senior Engineer, Infrastructure Department (HID)) carried out support supervision for RWSs in October and November 2019.

1-2 Progress of Activities

1-2-1 Activities of Output 1

(1) Steering Committee Meeting

Related activities	Every 3 months
1-3-1/1-3-2	
Details	• The Steering Committee meeting was held at the MOH on July 22,
	2019. Four MOH Officials, 7 Project members and 4 members
	from the JICA Uganda Office participated in this meeting.
	• The main objectives were: 1) to review the minutes of the
	discussions of the previous Steering Committee meeting and 2) to
	discuss the 3rd and 4th quarters of the FY2018/2019 budget for
	the Project activities.
Achievements	ullet The minutes of the discussions of the previous Steering
	Committee meeting were confirmed.
	• Members were informed that the disbursement of the MOH
	budget in the 3rd and 4th quarters of FY2018/2019 was 49% and
	46% of the planned budget, respectively.
Way Forward/	• The MOH will introduce a system in which the all management
Challenges	members in MOH can browse the budget execution status on their
	own PC. This system will be enabled the efficient planning of
	activity plans.
	• The Project budget for each quarter will be discussed at the

beginning of each quarter and the necessary funds for activities
will be applied for financial section in MOH. The Project
Implementation Teams (PIT) will monitor the disbursement of
funds for activities to avoid cancellation of activities.
• Due to the delayed budget execution by Ministry of Finance,
Planning and Economic Development, the Project activities by PIT
were concentrated in November 2019. Therefore the 6th Steering
Committee meeting was rescheduled for February 2020, when the
JICA Experts return to Uganda. In place of the 6th Steering
Committee meeting, the Project Manager and the Chief Advisor
conducted several face-to-face meetings to share the progress of
the Project activities.

(2) 6th Annual National Healthcare Quality Imp	provement Conference
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Related activity	Planned in August 2019
1-3-4	
Details	 The 6th Annual National Healthcare Quality Improvement Conference (QI Conference) was held from December 3-5, 2019. The Project arranged the keynote speech by Prof. Yujiro Handa on the theme "Bridging the gap of 5S implementation in the improvement of health services at all levels of care". The Project supported target hospitals and the MOH in writing abstracts and designing presentations. The Project supported the meeting to review the abstracts.
	 The Project facilitated the media coordination for public relations for the Conference.
Achievements	 The 5S-CQI(KAIZEN)-TQM Guidelines were officially launched at the Conference, and 250 copies were delivered to the participants. Image: Comparison of Copies were delivered to the participants. Ceremony of Launching 5S-CQI(KAIZEN)-TQM Guidelines At the keynote speech of Prof. Handa, the Project provided Kabale
	RRH with an opportunity to present how they are moving towards CQI(KAIZEN) and TQM as an example of actualizing the

	improvement of health services through 5S implementation.
	The topics of the presentations were:
	① "Beyond 5S-CQI(KAIZEN)" in Upward Spiral of Hospital
	Management (Prof. Handa)
	② 5S-CQI(KAIZEN)-TQM in Kabale RRHAn Overview (Dr.
	Sophie, Director, Kabale RRH)
	③ Functionalization of Medical Equipment through TQM (Sr.
	Lilian Bako, Kabale RRH)
	④ Reducing Wastage of Medicines and Health Supplies in
	Kabale RRH (Mr. Sam Kyatuka, Kabale RRH)
	The audience paid more attention to the keynote speeches by this
	unique arrangement. The audience seemed to gain a sense of the
	effectiveness of CQI(KAIZEN) and TQM at health facilities in
	Uganda.
	0 2
	3 4
	• In total, 11 abstracts were accepted from the target hospitals and
	the MOH: 4 oral and 2 poster presentations from Kabale RRH, 2
	oral presentations from Mubende RRH, and 1 oral presentation
	each from Naguru Referral Hospital (RH), Gulu RRH and MOH.
	• Conference participants seemed to recognize Kabale RRH as a
	"Center of Excellence" for quality improvement. MOH officials,
	especially those who visited the hospital in November (including
	MOH) repeatedly emphasized how excellent it is.
Way Forward/	• The Project will support Kabale RRH for further steps towards
Challenges	"Centre of Excellence". Patient safety will be a next theme, while it
	is necessary to continue improvement of medical equipment

management. Also, TQM on medical equipment will be extended
to several hospitals other than target facilities.
• MOH will take the lead in sharing good practices at Kabale RRH
not only with target facilities but also with health facilities
nationwide.

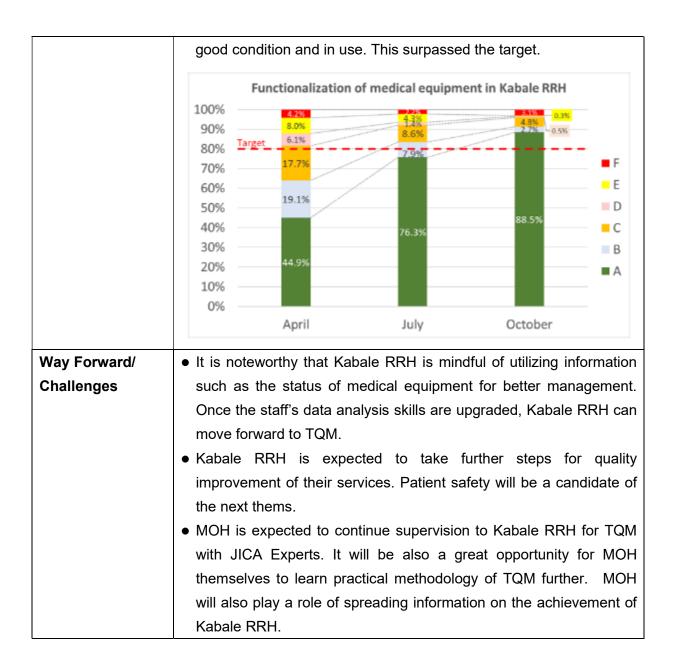
(3) Benchmarking Tour to Kabale RRH

Related activity	Planned in November 2019
1-3-4	
Details	Date: 28th November 2019
	Venue: Kabale RRH
	• Participants: 5 target hospitals with poor performance of 5S (Fort
	Portal RRH, Hoima RRH, Moroto RRH, Soroti RRH and Tororo
	General Hospital (GH), 3 National Referral Hospitals as entrants of
	5S (Mulago, Kawempe and Kiruddu). Three MOH counterparts
	(Director of Curative Services, Commissioner of Clinical Services,
	and Commissioner of Standards, Compliance, Accreditation and
	Patient Protection).
	Total number of participants: 24
	Objectives:
	① To provide an opportunity to learn about 5S-CQI(KAIZEN)-
	TQM practices from other hospitals.
	② To share Kabale RRH's experience of 5S-CQI(KAIZEN)-TQM
	implementation.
Achievements	• The tour was conducted successfully and most of the participants
	actively took part in all the activities. The participants, especially
	the top management, asked questions such as how to secure the
	budget for 5S-CQI(KAIZEN), how to conduct Quality Improvement
	(QI) trainings and how to involve contract staff and interns in
	5S-CQI(KAIZEN). In addition, the Director of Kabale RRH shared
	her experiences. The practical information and advice given will
	help the participants to improve their 5S-CQI(KAIZEN) activities.
	• The tour also provided a good opportunity for Kabale RRH staff to
	host a group of people who wished to learn about
	5S-CQI(KAIZEN)-TQM. All activities were mainly led by members
	of Kabale RRH's Quality Improvement Team (QIT), with support

	from the National 5S-CQI(KAIZEN)-TQM facilitators and Working Improvement Teams (WIT), who were well prepared for the observations.
	Presentation by Hospital At QI Office with QI At Inpatient Pharmacy Focal Person Director
	 Allowances and transportation were covered by the MOH.
Way Forward/	• MOH is going to evaluate the results of the benchmarking tour
Challenges	through supervision.

Related Activity	Planned from January 2019
1-3-5	
-	 Planned from January 2019 Theme of TQM: Functionalization and usage of medical equipment in all departments. Target: At least 80% of medical equipment is in good condition and in use. The following activities have been implemented since the commencement in March 2019: April: Conducted baseline survey July-October: Updated status of equipment in each department July: Introduced Simple (manual) Geographic Mapping Information System (SGMIS) for equipment July: Provided feedback on equipment status in each department July: Each department identified and implemented countermeasures to improve the status of equipment August: Conducted a QIT-led analysis of root causes of the status of unwanted medical equipment and implemented countermeasures
	STETHOSCOPS, CAT B
	A sample of SGMIS (at Surgical Dept)
	JICA Experts carried out monthly supervision.
Achievements	• In October, 88.5% of medical equipment at Kabale RRH was in

(4) TQM at Kabale RRH



Related Activity	Planned in May-December 2018
2-1/2-2/2-3	
Details	The following steps were taken to finalize the guidelines:
	1) May 2019: JICA Experts prepared the draft guidelines.
	2) June: Held a workshop to review the draft guidelines. There were
	19 participants from the MOH, Kabale RRH, Entebbe RRH,
	Implementing Partners and a Private Non for Profit organization.
	3) July: Presented the guidelines at the MOH's Supervision,
	Monitoring, Evaluation and Research Technical Working Group
	(SMEAR TWG) after making modifications based on suggestions
	from the workshop.
	4) September: Endorsed the guidelines at a MOH Senior
	Management Committee (SMC) Meeting.
Achievements	• 5S-CQI(KAIZEN)-TQM Guidelines were officially launched at the 6th
	QI Conference.
	• 500 copies of the guidelines were printed; 250 were delivered.
Way Forward/	• 5S-CQI(KAIZEN)-TQM Guidelines will be uploaded to the Ministry of
Challenges	Health's Knowledge Management Portal.
	(http://library.health.go.ug/)

1-2-2 Activities of Output 2

(1) Development of 5S-CQI(KAIZEN)-TQM Guidelines

(2) Development of 5S-CQI(KAIZEN)-TQM Facilitators' Guidebook

Related Activity	Planned in April-December 2018	
2-1		
Details	• After the review by users of the guidebook (MOH and national	
	5S-CQI(KAIZEN)-TQM facilitators), the following tasks were done:	
	1) The guidebook was proofread by a professional proofreader.	
	2) Photos were added to the guidebook.	
	3) An illustrator was hired to draw illustrations for the guidebook.	
Achievements	• The document was proofread and most of illustrations were	
	completed.	
Way Forward/	• The guidebook will be finalized in February 2020.	
Challenges		

Related Activities	Anytime as necessary	
2-2		
Details	• Presented the results of the 3rd M&E of 5S performance at the	
	SMEAR TWG in July, the SMC in September, and the 6 th QI	
	Conference in December.	
Achievements	• The MOH and the participants of the 6th QI Conference obtained	
	information on the current performance of 5S.	
Way Forward/	None	
Challenges		

(3) Presentation of 5S Performance - 3rd Monitoring and Evaluation (M&E)

(4) Preparation of 4th M&E of 5S Performance

<u> </u>	
Related Activity	Planned in March 2020
2-2	
Details	• Decided to conduct the 4th M&E of 5S performance in
	January-February 2020.
	 Communicated with target hospitals and national
	5S-CQI(KAIZEN)-TQM facilitators to schedule the data collection.
Achievements	 A detailed schedule of data collection was fixed.
Way Forward/	 Data will be collected in January-February 2020.
Challenges	• Data will be analyzed in late February 2020 and the results will be
	shared in the following months.

(5) Advanced 5S-CQI(KAIZEN)-TQM Facilitators' Training

Related Activity	Planned in October 2019
2-5	
Details	• The purpose of this face-to-face training was to enable facilitators to
	lead the instruction of 5S-CQI(KAIZEN)-TQM accurately and
	effectively after the end of the Project.
	 Date and Venue: 20-22nd November 2019, in Kampala.
	• Facilitators: 4 participants were chosen from selected hospitals
	(Entebbe, Hoima, Kabale and Mubende) with consideration their
	mobility to go any health facilities whenever and wherever they are
	asked to train and supervise 5S-CQI(KAIZEN)-TQM, sufficient
	experiences as facilitators in and outside the hospital they are
	working in, and adequate computer skills.

	• Facilitators of the training: Prof. Yujiro Handa and Ms. Shizu
	Takahashi.
	Objectives of the training:
	1) To enable participants to perfectly understand and explain the
	"pyramid of management" and "5S principles".
	2) To learn how to make a presentation using cards.
	3) To prepare effective PowerPoint presentations by oneself.
	4) To acquire basic skills in Microsoft Excel, such as the use of
	formulas and functions, and the proper selection of graphs.
	Participants developing presentation Participants doing an exercise during with cards the presentation
Achievements	• Generally, all participants acquired most of the skills and were
	certified as "advanced 5S-CQI(KAIZEN)-TQM facilitators". They can
	develop their own presentations on the
	 "pyramid of management" and "5S principles". Participants need to improve their Excel skills through continuous use. Four advanced facilitators utilized the presentations developed in this training at the Benchmarking Tour to Kabale RRH on 28th November 2019. They all performed well. Participants of the tour appreciated their instruction, especially the presentation using cards.
Way Forward/	• The MOH is expected to utilize these 4 advanced facilitators to roll
Challenges	out 5S-CQI(KAIZEN)-TQM nationwide by mobilizing them for other
	5S projects implemented by other IPs.

Related Activity	Started from June 2018
2-6/2-8	
Details	• The following hospitals have been supervised from June 2019 to
	date: Moroto RRH (24th Jun.), Soroti RRH (25-26th Jun.), Mbale
	RRH (26-27th Jun. and 17th Oct.), Tororo GH (27-28th Jun. and
	18th Oct.), Lira RRH (2-3rd Jul.), Gulu RRH (3-4th Jul.), Fort Portal
	RRH (8th Jul.), Mubende RRH (9-10th Jul.), Entebbe RRH (12th
	Jul.), Hoima RRH (25th Jul.), Masaka RRH (29th Jul.), Mbarara
	RRH (22nd Aug.), Naguru RH (28th Aug.), Jinja RRH (16th Oct.)
	and Arua RRH (24th Oct.).
	• Three National Referral Hospitals (Mulago, Kawempe and Kiruddu)
	were also supervised in August and September 2019.
Achievements	• Target hospitals except Entebbe and Naguru, the Project provided
	advice for the improvement of 5S performance, especially in terms
	of leadership and standardization.
	• Entebbe: The Project advised usage of a CQI(KAIZEN) board for the
	implementation of small CQI(KAIZEN).
	• Naguru: The Project advised the start-up of CQI(KAIZEN), including
	staff training.
Way Forward/	• All hospitals are expected to use advice from the Project to improve
Challenges	their performance of 5S and CQI(KAIZEN).

(6) Supervision of 5S-CQI(KAIZEN)-TQM

1-2-3 Activities of Output 3

(1) Development of User Training (UT) Guidelines

Related to	Planned in June 2018-March 2019
activity 3-1	
Details	 The following steps were taken to finalize the guidelines:
	1) September 2019: MOH staff and JICA Experts prepared a draft
	of the guidelines.
	2) November 2019: A workshop was held to verify the guidelines.
	Participants were: 2 MOH staff members, 6 RRH hospital
	directors, 8 User Trainers, 1 HID staff member, JICA Experts,
	and secretaries.
	3) December 2019: Clinical Care and Infrastructure TWG pointed
	out necessity of the responsible department of the User

Training activities in MOH, and did not approve the draft as an official MOH document. Participants were: 5 MOH staff members, 2 RRH hospital directors, 1 HID staff member, JICA Experts and secretaries.Achievements• The UT guidelines were verified in the workshop and the draft was in place.Way Forward/ Challenges• Approval at the Clinical Care and Infrastructure TWG meeting, Senior Management Committee Meeting (SMC) and Top Management Meeting (TMM) is required for finalization of the guidelines. • The MOH is going to determine responsible department of UT by February. • After approval of the guidelines and manuals, it is necessary to prepare for printing.TwoT			
members, 2 RRH hospital directors, 1 HID staff member, JICA Experts and secretaries. Achievements • The UT guidelines were verified in the workshop and the draft was in place. Way Forward/ Challenges • Approval at the Clinical Care and Infrastructure TWG meeting, Senior Management Committee Meeting (SMC) and Top Management Meeting (TMM) is required for finalization of the guidelines. • The MOH is going to determine responsible department of UT by February. • After approval of the guidelines and manuals, it is necessary to prepare for printing. Image: Commission of the guidelines and manuals is a necessary to prepare for printing.		Training activities	s in MOH, and did not approve the draft as an
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Achievements • The UT guidelines were verified in the workshop and the draft was in place. Way Forward/ Challenges • Approval at the Clinical Care and Infrastructure TWG meeting, Senior Management Committee Meeting (SMC) and Top Management Meeting (TMM) is required for finalization of the guidelines. • The MOH is going to determine responsible department of UT by February. • After approval of the guidelines and manuals, it is necessary to prepare for printing.		members, 2 RRH	I hospital directors, 1 HID staff member, JICA
was in place. Way Forward/ Challenges Approval at the Clinical Care and Infrastructure TWG meeting, Senior Management Committee Meeting (SMC) and Top Management Meeting (TMM) is required for finalization of the guidelines. The MOH is going to determine responsible department of UT by February. After approval of the guidelines and manuals, it is necessary to prepare for printing. Image: Commission of the section of the se		Experts and secr	etaries.
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		 After approval of th 	e guidelines and manuals, it is necessary to
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Guideline verification workshop Clinical Care and Infrastructure TWG review	<image/>		
	Guideline verifica	ation workshop	Clinical Care and Infrastructure TWG review

(2) User Training Workshop (The 4th User Trainer Refresher Training and the 5th Training of Trainers (TOT))

Related to	Planned in April 2019
activity 3-2, 3-3	Planned in October 2019
Details	• A UT workshop was held at the Entebbe RRH meeting room from
	28-31st October 2019. Participants included a MOH official, 35 User
	Trainers, JICA Experts and a secretary.
	 The UT workshop conducted the following activities:
	1) Editing and review of User Training Guidelines
	2) Experience-sharing with other trainers
	3) Methods for improving users' attitudes on training session

	4) Discussion on maintaining sustainability after project completion
Achievements	 All User Trainers reviewed and edited the guidelines. User Trainers learned examples of activities, such as SGMIS at Kabale RRH and training of assistant trainers at Fort Portal RRH. User Trainers learned effective teaching methods. The following was decided on regarding the sustainability of activities: Secure the budget for activities. Submit work plans and reports at the right time. Strengthen relationships with other IPs. Strengthen relationships with the Director, Principal Health Administrator and Medical Equipment Maintenance Workshop
Way Forward/	(WS) Manager.User Trainers are needed to constantly raise awareness and develop
Challenges	activities.
	 Utilize Social Network Systems (SNS) and other means of communication to strengthen the relationship among User Trainers. Periodical meeting among hospital management members, user trainers and WS staff is necessary to find medical equipment condition in each facility and to discuss efficient plan for user training. Both User Trainers and WS staff are required to monitor medical equipment for proper management. Funding for user training activities in hospitals and lower health facilities is required.

(3) Support Supervision

Related to	Planned from September 2018-May 2020.
activity 3-4	
Details	• The following hospitals were supervised from September to
	November 2019: Kabale RRH (9th Sep.), Fort Portal RRH (10th Sep.),
	Mubende RRH (11th Sep.), Entebbe RRH (13th Sep.), Lira RRH (16th
	Sep.), Hoima RRH (17th Sep.) Naguru RH (18th Sep.), Arua RRH
	(25th Nov.), Gulu RRH (26th Nov.), Soroti RRH (27th Nov.), Moroto
	RRH (28th Nov.), Mbale RRH (29th Nov.), Jinja RRH (4th Dec.),

	Masaka RRH (5th Dec.), Mbarara RRH (6th Dec.). • The main objectives were as follows:						
	 The main objectives were as follows. Confirm and provide guidance on UT implementation status and 						
	action plan progress.						
	 Provide advice on improving the utilization rate of medical equipment. 						
	equipment.						
	3) Check the status of the collaboration between the User Trainers						
	and the WS.						
	4) Explain SGMIS.						
	5) Share the results on the sustainability of the activities discussed at						
	the UT workshop.						
	6) Explain the equipment status and response, based on the results						
	of the inventory data analysis.						
Achievements	• User Trainers continued to conduct UT at target hospitals and lower						
	health facilities.						
	Necessity of UT on category B medical equipment were shared						
	among User Trainers.						
	• As a result of UT, the utilization rate of medical equipment at Arua,						
	RRH, Kabale RRH, Masaka RRH, Jinja RRH, and Mubende RRH has						
	improved.						
	• Good practices found in Fort Portal RRH and Mubende RRH: The						
	necessary costs for UT activities were discussed and determined						
	between User Trainers and the Director at Fort Portal; At Mubende, the manager cooperated with the User Trainers' activities						
	the manager cooperated with the User Trainers' activities.						
	 At Kabale RRH, the 5S, UT and ME teams have jointly created a simple (manual) geographic mapping information system for 						
	equipment.						
Way Forward/	 Operational status of medical equipments have been improved due to 						
Challenges	the work of ME. On the other, the management level of Arua, Masaka						
	and Lira has not yet understood the necessity of in-hospital UT and						
	adequate budget allocation. Therefore it is necessary for MOH to						
	inform each facility on the importance of UT for improving the						
	infrastructure management of the facility.						



16

Related activity 4-3	Planned from November-December 2019.						
Details	• Date and Venue: 4-8th November 2019 at Jinja RRH,						
	including hands-on practice at Lganga GH from 15:00 to						
	18:00 on 7th November.						
	• Targeted equipment: 5 items (microscope, centrifuge, hot air						
	oven, table-top autoclave and horizontal large autoclave)						
	• Participants: 23 technicians from the WSs and general						
	hospitals						
	• Facilitators: 3 in total: 1 lecturer and 1 assistant lecturer from						
	Makerere University and 1 service engineer from the local						
	distributor of Tuttnauer autoclaves						
	• Objectives: To learn the basic operation and functions of the						
	targeted equipment, as well as common mistakes, basic						
	maintenance and trouble-shooting techniques, through						
	lectures and hands-on practice						
Achievements	• The average test results were 46% for the pre-test and 79%						
	for the post-test. The average score rose by 33%, and						
	knowledge and skills were greatly improved.						
	Scores (%) Pre-Test (%) A Post-Test (%) B						
	1000 1000						
	• The trainees learned about the mechanism of the demo equipment and acquired skills by disassembling and assembling the equipment (hands-on practice). Notably, during the practice at Iganga Hospital, trainees repaired a						
	non-functional autoclave using their newfound knowledge.						

1-2-4 Activities of Output 4

(1) Training on Maintenance of Basic Medical Equipment

Challenges	and accounted for 61.8% of the total cost. The amount					
	leased from the Uganda side was substantially (30-40%)					
	more than expected, due to the stable ownership of the HID					
	and Central WS.					
•	• After the training, each trainee was assigned the following					
	activities in order to put their newfound knowledge into					
	practice:					
	1) Submit a training report to the Director, with a copy to the					
	HID.					
	2) Conduct a feedback session to share the training materials					
	and acquired knowledge with other technicians.					
	3) Carry out basic maintenance (at least 3 units of each					
	targeted piece of equipment) within 3 months.					
Lecture (Microscope)	Testing function (Centrifuge) Troubleshooting (Autoclave)					

(2) Training on Testing and Calibration of Medical Equipment (Advanced Course)

Related activity 4-4	Planned from July-August 2019.					
Details	 Title: Training on Testing and Calibration of Medical Equipment 					
	 Date and Venue: 21-25th October 2019 at Jinja RRH 					
	• Targeted Areas: The science of calibration; principles of ISO 17025					
	(the standard for testing and calibration laboratories); safety					
	considerations; use of an electrical safety analyzer; and calibration for					
	temperature, mass, pressure and rotation.					
	 Participants: 27 engineers and technicians from the WSs 					
	• Facilitators: 2 experienced engineers who formerly worked at the					
	Uganda National Bureau of Standards (UNBS).					
	• Objectives: To learn the science of measurement and calibration,					
	principles of the ISO 17025 standard, and how to use testing and					
	calibration devices (the electrical safety analyzer, tachometer,					
	thermometer, etc.) through lectures and hands-on practice.					

Achievements	• The average scores from pre-test and post-test improved as follows:					
	Pre-Te		9			
	44.5%	78.8%	5 34.3% UP			
	• As shown in	the above results, the	level of knowledge was greatly			
	improved thro	ugh this training.				
	• The hiring of	qualified facilitators was	s a key factor in the success of			
	the training.					
	• This was the	first training on electri	cal safety and the functions of			
	common med	ical equipment, as a firs	t step in popularizing preventive			
	maintenance.					
	•					
Way Forward/	• The training w	as held in October, two	months behind schedule, due to			
Challenges	budget delays	in the 1st quarter of FY2	2019/20. However, there was no			
	negative impact on the activities.					
	• Funds from th	• Funds from the Uganda side were released smoothly, accounting for				
	57.3% of the total cost.					
Electrical safety (Monitor) Pressure test (Scale) Rotation test (Centrifuge)						

(3) 24th and 25th WS Performance Review Meetings

Related activity 4-5	At least twice a year (Year-round activity)						
Details	• Two quarterly WS Performance Review Meetings were held: at						
	Mbale on 30th August 2019 (24th Meeting) and at Soroti on 22nd						
	November 2019 (25th Meeting). The number of participants and						
	stakeholders at each meeting was 65 and 62, respectively.						
	• The main objectives were: 1) communication from the HID, 2)						
	quarterly performance reports from each WS, 3) activity reports from						
	User Trainers, and 4) discussions, recommendations and meeting						
	resolutions. For the 25th meeting, the following 2 items were added						
	to the agenda: 5) A brief presentation from the Atomic Energy						
	Council on managing radiology equipment, and 6) A brief						
	presentation from the distributor of Tuttnauer autoclaves, Nairobi						

	Enterprises (Ug) Ltd.
Achievements	 These meetings were recognized as a platform for sharing budget performances, WS productivity and issues related to activities 1-3-2, 4-5 and 4-6. The quality of the WS's report and presentation skills has been improving with repeated experiences of preparation. The participants voiced their appreciation for JICA's continuing support, including the provision of 7 computers.
Way Forward/ Challenges	 The allowance and transportation expenses were covered by each WS budget. The maintenance contract for the RRHs' Oxygen Production Plants, which was concluded 2 years ago, was found to be expired soon. For sustainable oxygen supply, the contract is needed to be extended. The RRH directors are highly recommended to take the lead in securing funding for this. Inventory management has stagnated in some WSs due to PC failure. As 7 computers have been donated by the Project, it is expected that these issues will be resolved in the near future. The next meeting will be hosted by Moroto RRH in Mar./Apr. 2020.

Related	Twice a year (Ye	ear-round activity)							
activities 4-5 and									
4-6									
Details	• Two rounds o	f support supervision were carried out according to the							
	following sche	dule:							
	1st Round (Jur	ne-July 2019) for 13 WSs							
	10-14th Jun.	Mubende, Fort Portal, Kabale, Mbarara, Masaka							
	24-26th Jun. Moroto, Soroti, Mbale, Jinja								
	8-12th Jul.								
	2nd Round (Oc	tober-December 2019) for 14 WSs							
	7-16th Oct.	Lira, Gulu, Arua, Hoima, Naguru							
	18-21st Nov.	Jinja, Mbale, Moroto*, Soroti*							
	2-6th Dec.	Masaka*, Mbarara*, Kabale, Fort Portal, Mubende							
	* The Project pr	ovided the above 4 WSs with dedicated computers for							
	inventory man	agement.							
	• The agenda	mainly covered 5 areas: 1) inventory management							
	using the NOMAD database; 2) proper preparation of annual work								
	plans, quarterly performance reports and budgets 3) reduction of the								
	equipment status "B", "C" and "E"; 4) user training implementation;								
	and 5) 5S-CQI (KAIZEN) follow-up.								
Achievements		CA Experts were able to visit all Regional WSs two							
	times. This includes Motoro WS in Karamoja Region, which was not								
	• •	d to visit due to the security reasons.							
	 Agenda items 1) to 4) (above) have been progressing in most WSs. During the supervisions the User Trainers reported their 								
	• During the supervisions, the User Trainers reported their								
	achievements and key challenges. Through these collaborations,								
	integrated supervision for Output 1 is being promoted.								
Way Forward/		VS manager and senior technician have participated in							
Challenges	-	as supervisors in connection with Activity 4-5,							
	• •	the capacities of the Central WS.							
	•	ve maintained 5S activities, but they are still confusing							
	•	of 5S and CQI (KAIZEN). Refresher training by the WS							
	•	ed to develop proper CQI(KAIZEN) action plans.							
	-	ial capacity of new WSs, such as Masaka, Mbarara,							
	Jinja and Mo	roto, is not enough compared with the other WSs.							

(4) Support Supervision for WSs

Further support for the	ese WSs is required.
Discussion with WS team, Moroto	5S in tools storage, Mbarara

(5) Enhancement of Medical Equipment Inventory Update and Analysis

Related activity 4-2	Year-round activity							
Details	• The Project provided computers to WSs whose inventory							
	management had stagnated due to computer problems.							
	• The Project, HID, and Infectious Disease Institute (IDI) IT team							
	have constantly provided coaching to WSs on the use of NOMAD							
	software and data analysis through support supervisions.							
	 The RRHs' inventories were analyzed, as mentioned below. 							
Achievements	• Seven dedicated computers for inventory management were							
	procured, installed and handed over to the WSs (Arua, Soroti,							
	Moroto, Masaka, Mbarara, Mubende and Central).							
	• The computer procurement was a success because of the							
	collaboration between related parties. JICA procured the							
	computers, UPSs and anti-virus software, and IDI provided and							
	installed Microsoft Windows, Office and NOMAD software. After							
	receiving the computers, the WSs are taking responsibility for							
	computer maintenance and anti-virus updates.							
	• The NOMAD national database is regularly updated. As of							
	December 2019, more than 45,000 items and 74,000 pieces of							
	equipment have been registered nationwide.							
	 Based on the analysis, the average percentages of conditions "A", 							
	"B" and "C+E" as Project indicators have gradually improved from							
	the baseline data. In particular, conditions "A" and "B" have							
	achieved their respective goals.							
	• The stagnation of inventory updating, and analysis has been							
	resolved through computer procurement.							

Way Forward/	• Condition "C+E", the indicator of Output 4, has not yet been					
Challenges	achieved due to the various constraints, as mentioned below					
	chapter 1-5. It is important to address the reduction of these					
	constraints.					
	• A quarterly reporting system of equipment inventory analysis was					
	started by each WS following the new quarterly report format in					
	July 2019. Evidence-based planning and budgeting using these					
	inventory data is expected.					

No	Name of		Equipment Condition (%)				TOTAL	C+E	
INU	RRH	A (>70%)	B (<4%)	С	D	E	F	TOTAL	(<15%)
1	Arua	92.4%	0.4%	2.3%	1.0%	2.3%	1.7%	100%	4.6%
2	Gulu	91.1%	1.3%	3.5%	0.6%	2.5%	0.9%	100%	6.1%
3	Lira	82.1%	8.2%	2.9%	1.8%	3.2%	1.9%	100%	6.0%
4	Soroti		(Not ye	t uploaded	to NOMA	ND)			
5	Moroto	64.1%	5.8%	6.8%	2.8%	17.8%	2.7%	100%	24.6%
6	Hoima	67.3%	4.2%	15.4%	3.4%	4.0%	5.7%	100%	19.3%
7	Fort Portal	93.6%	0.8%	4.7%	0.2%	0.5%	0.2%	100%	5.2%
8	Kabale	86.6%	3.7%	1.8%	1.8%	3.5%	2.6%	100%	5.4%
9	Mubende	89.7%	0.5%	4.0%	0.7%	2.1%	3.1%	100%	6.1%
10	Masaka	74.2%	1.6%	12.8%	5.7%	4.7%	1.1%	100%	17.5%
11	Jinja	59.5%	6.1%	17.6%	9.1%	5.3%	2.4%	100%	22.8%
12	Naguru	71.9%	8.2%	12.2%	0.4%	6.3%	1.1%	100%	18.5%
13	Mbale	61.5%	1.3%	30.5%	2.2%	2.4%	2.1%	100%	32.9%
14	Mbarara	66.9%	6.9%	6.9%	0.3%	15.7%	3.4%	100%	22.5%
(1	Average 3 out of 14)	76.6%	3.5%	10.7%	2.6%	4.5%	2.2%	100%	15.2%
Mid	(Apr. 2019)	76.2%	3.5%	11.5%	2.6%	4.1%	2.2%	100%	15.6%
Bas	eline (2016)	65.1%	5.1%	17.9%	3.5%	4.2%	4.3%	100%	22.1%

Table 1: Medical Equipment Inventory Analysis Report of RRHs, Dece	mber 2019
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A: In good and in use B: Good but not in use

C: In use but needs repaired D: In use but needs replacement

E: Out of order but repairable

F: Out of order should be replaced

(6) Update and Develop WS Operation Manuals, Guidelines and Monitoring Tools

Related activity 4-1	Planned from May-December 2018	
Details	• The WS Operation Manual has not yet been fully revised because	
	the trainings and support supervisions were prioritized.	
	• However, documents that are widely used in routine work were	
	developed, as a part of the Manual.	
Achievements	• The following templates were revised and/or newly developed:	
	- Quarterly Performance Report	

	- Quarterly PowerPoint Presentation
	- Job Card
	- Maintenance Requisition Form (former Complaint Form)
	- Consolidated Annual Work Plan, including partners' activities
	• Currently, the Standard Operating Procedures (SOP) for planned
	preventive maintenance are being prepared.
Way Forward/	• The new WS Operation Manual is going to be published within the
Challenges	Project period through the following procedure:
	- Twenty-nine SOPs for commonly maintained equipment will be
	prepared by all WS teams by December 2019.
	- The chapters that need to be updated will be revised by the
	HID and the Project by February 2020.
	- The above SOPs and the chapters will be finalized through the
	next management training by March 2020.
	- The new Manual will be published by April 2020.

(Other activities)

- [ME] The Project has given proactive support for two in-house WSs in Masaka and Mbarara to be upgraded from in-house level to the regional level.
- [ME] The JICA Expert supported the selection of candidates for the JICA training "Medical Equipment Management and Maintenance", which will be held in Japan early next year. Although there was originally only one slot for Uganda, in the end two technicians were selected.
- [ME] The JICA Expert and a local Project staff member assisted at the "Workshop to Update Medical Equipment Policy (Equipment Specifications) for Equipment at Health Center (HC) III and IV", hosted by the Uganda Reproductive Maternal and Child Health Services Improvement Program under the World Bank.

1-3 Achievement of Output

1-3-1 Summary of Achievements

Output 1: In July 2019, the Steering Committee members discussed the efficient utilization of the budget and agreed on the budget allocation rates for both the Ministry of Health and the Japanese side. The 6th Steering Committee meeting was rescheduled to February 2020, when JICA Experts return to Uganda, because of tight schedules in PITs. To ensure full communication, the Project Manager and Chief Advisor conducted several face-to-face meetings.

Through the Steering Committee meeting and face-to-face meetings, mutual understanding on

project progress among the members was deepened, and improvements were made in the efficiency of activities for health infrastructure management, such as the progression of 5S-CQI (KAIZEN) activities in WS, and cooperation between User Trainers and WS. The continuation of these meetings will enable the formulation of an efficient action plan.

The MOH was able to contribute 46% of the total cost of the Project activities from July to December 2019. The MOH's budget execution at the beginning of the fiscal year is likely to be delayed, but the Department in charge has prioritized the budget allocation for the Project activities to prevent delays in activities.

Output 1			
Supporting/supervising system for heal	th infrastructure management of all the RRHs		
is strengthened in the MOH.			
Current Indicators	Achievements		
1-1			
The Project Steering Committee	The Steering Committee meetings were		
meeting is conducted every three	conducted on nearly every three months.		
months.	Detailed dates are as follows		
	1) 29th May 2018		
	2) 17th September 2018		
	3) 27th November 2018		
	4) 2nd February 2019		
	5) 22nd July 2019		
	The 6th Steering Committee meeting was		
	rescheduled for February 2020, when the JICA		
	Experts return to Uganda. In place of the 6th		
	Steering Committee meeting, the Project		
	Manager and the Chief Advisor conducted		
	several face-to-face meetings to share the		
	progress of the Project activities.		
1-2			
The results of integrated support	The work plan and activity budget for the new		
supervision conducted by Project	fiscal year were approved at the Steering		
Implementation Teams, and the next	Committee meeting held on 22nd July 2019.		
quarter action plan developed from			
these results, are shared and approved			
at every Project Steering Committee			
meeting.			

1-3	
The roadmap for incorporating the	The budget for FY2019/2020 was executed.
Project activities into the policy and	However, the activity budget for each
systems of MOH is established and	department in the 1st quarter of 2019/2020
implemented by the Project Steering	was not enough.
Committee.	
1-4	
The Project activities are successfully	Based on discussions of the 3rd Joint
incorporated into the Ministerial Policy	Coordination Committee (JCC) in 2018, the
Statement of Ministry of Health.	MOH promised to bear some part of the cost
	for each department's FY2019/2020
	operational budget. Forty-five per cent of the
	total Project activity cost was covered by the
	MOH under the operational budget.

Output 2: As described below, 7 out of 17 target hospitals reached target set in Indicator 2-2 and 2 hospitals have good prospects to achieve it. The work environment in these hospitals is improving year by year through the 5S practice, although the target of Output 2 has not been achieved perfectly. It is necessary to continue supervision to keep the momentum going. The supervision of 5S-CQI (KAIZEN)-TQM is a leading contributor of current performance. It provides an opportunity for each hospital staff member to reaffirm the problems specific to their section and offer feasible solutions. The training of 5S-CQI (KAIZEN)-TQM facilitators also played an important role, as they improved their supervisory skills within their hospitals.

7 hospitals with scores below the target are needed to improve the score of top management and QIT (formulation of action plan, implementation of internal supervision and M&E, etc.), leadership at unit/department level (e.g. formulation of action plan, implementation of internal training, etc.) and standardize (development of checklist and SOP).

Output 2 [Project Implementation Team: 5S-CQI-TQM]		
Resource management and quality improvement activities are strengthened through		
CQI approach in all RRHs.		
Current Indicators Achievements		

2-1							
Score of Module 1 (Leadership) and 6	The	MOH	collected	data	from	10	target
(Health Infrastructure) Health Facility	hosp	itals. T	he scores	will be	e share	ed w	ith the

Quality of Care Assessment program	JICA Expert soon after their analysis.
(HFQAP) Facility Assessment Tool	
- All RRHs mark (i) 5 points out of 8	
as full marks for module 1 and (ii) 6	
points out of 10 as full marks for	
module 6.	
2-2	
Score of modified 5S M&E Sheet in	Seven out of 17 hospitals reached the target
5S-CQI-TQM Guidelines	(60%): Arua, Entebbe, Jinja, Kabale, Mbale,
- All RRHs mark 33 points out of 54	Mbarara and Mubende.
as full marks for at least two	Two hospitals, Masaka and Naguru, have good
consecutive years.	prospects to achieve the target at the 4th M&E.
	(See Figure 1)

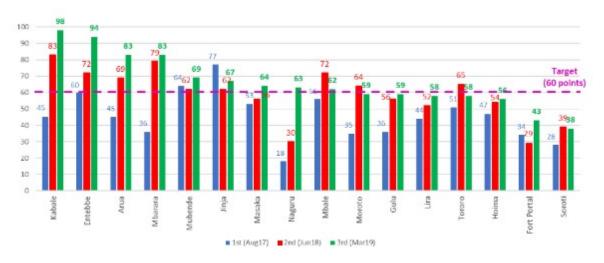


Figure 1: The results of 5S M&E by hospital

Output 3: The number of regional User Trainers reached targets in 13 out of 15 hospitals, but was not achieved in Hoima and Mbarara RRH. The regional trainers at the 2 hospitals will conduct TOTs by the end of the 3rd quarter of 2019/2020.

The average percentage of equipment status "B" (3.5%) has been achieved, and 7 out of 13 hospitals improved more than the baseline (5.1%).

JICA Experts and MOH provided guidance on the medical equipment inventory data analysis at the supervision. As a result, the status of medical equipment in the facility were obtained, and User Trainers in the facility provided UT to the hospital staffs according to the analysis of medical equipment inventory.

[Project Implementation Team: UT]					
Proper utilization of medical equipment	nt through UT is im	proved	d in all	RRHs.	
Current Indicators	Achievements				
3-1					
There are at least two regional User	The number of Use	er Train	ers is s	hown below	v:
Trainers at all RRHs.	No. of User Trainers			s	
	Hospital Name		lified	Not yet qu	
	Arua		2		
	Fort Portal	-	2		
	Gulu		2		
	Hoima		1	1	
	Jinja	-	2		
	Kabale	-	2		
	Lira	-	3		
	Masaka	-	2		
	Mbale	-	2		
	Mbarara		 1	1	
	Moroto	-	2		
	Mubende	-	2		
	Naguru (RH)	-	2		
	Soroti	:	3		
	Entebbe		3		
	Total	3	31	2	
	*As of the end of N	lovemb	er 2019).	
3-2					
The number of UT conducted by	The number of UT	s is sha	wn held	אר.	
regional User Trainers is more than	Hospital name	No.	1	tal name	No.
•	Arua	2	Mbale		3
three per year in every region.	Fort Portal	1	Mbara		1
	Gulu	4	Moroto		2
	Hoima Jinja	<u>1</u> 3	Muber	nae u (RH)	1 2
	Kabale	1	Soroti	~ (I \I I)	2
	Lira	2	Entebl	be	1
	Masaka	2			
	*For the period from	m July 1	to Nove	mber 2019	
3-3					
The average percentage of medical	al Baseline: 5.1%				
equipment in status B at all RRHs is					
not higher than 4%.			Table ⁻	1.)	
	(The details are shown in Table 1.)				

Output 4: Following the first half of 2019, the activities for the ME component were implemented smoothly despite the tight schedule, including the two trainings, the WS Performance Review Meetings, and the support supervision visits.

In the two trainings, both average scores rose by 33% above more than expected (>15%). In regard to 5S activities, most WSs have continued their 5S activities and maintained a high level of orderliness and cleanness. User Trainings have progressed using the WS budget, and collaboration between the WSs and User Trainers has been strengthened.

Although the average percentage of equipment in status "C+E" (15.2%) was a bit higher than the expected goal (<15%), it decreased substantially from the baseline (22.1%). In addition, the funds from the Uganda side were released without delay, and the amount was higher than planned, indicating strong ownership on the Uganda side.

According to these positive results, it can be said that the Project activities contributed to the improvement of WS maintenance and management capacities, which is the goal of Output 4. These activities such as the training, the WS Performance Review Meeting, the support supervision visits and the equipment inventory management can be sustained by the initiative of the HID even after the Project ends.

Output 4 [Project Implementation Team: ME]				
ME and management capacity of WS are strengthened				
Current Indicators Achievements				
(1) The average increase of	29.4%: Target was achieved.			
scores between the pre-test	(Average score of the past 9 training sessions)			
and post-test is at least 15%.				
(2) The average of percentage	Baseline: 22.1% (C17.9% + E4.2%)			
of medical equipment in	Current data: 15.2% (C10.7% + E4.5%)			
status C and status E at all	II The current data is the average of 13 out of 14 RRHs			
RRHs is not higher than	(The details are shown in Table 1.)			
15%.				

1-4 Achievement of the Project Purpose

The activities of each output have greatly contributed to human resource development since the start of the Project. Nineteen cases of CQI(KAIZEN) processes are being implemented according to procedure, and 6 cases have been completed. In addition, at least one case of small CQI(KAIZEN) was practiced at 12 out of the 16 target facilities. These cases were carried out in a standardized manner to ensure continuity, and the establishment of 5S activities was evident at the target facilities.

In terms of health infrastructure management, the percentage of medical equipment inventory

records in status A increased from 65.1% as baseline data to 76.5% in December 2019 as a result of the close cooperation between the WS and User Trainers, as well as work process improvement by the implementation of 5S-CQI(KAIZEN) activities.

In addition, the three Project Implementation Teams have been conducting "support supervision" (supervision for sustainable infrastructure management) in target facilities. This activity contributed to strengthen health infrastructure management by improving the inventory at each facility, and to increase the number of QC cases.

This has greatly contributed to the achievement of the Project indicators. purpose.

However, the budget execution from the Ministry of Finance, Planning and Economic Development to the MOH was not on time. This hindered timely budget execution to each department of the MOH. Even under these circumstances, each department worked on partial budget execution.

In addition, it is noteworthy that Kabale RRH completed a TQM project on functionalization of medical equipment, which is the first case in Uganda. The realization of TQM at a facility in Uganda brought a great impact nationwide and is recognized as a 5S-CQI-TQM model hospital and total quality-controlled facility. Its methodology and practices are expected to spread to the other facilities.

Current Indicators	Achievements
(1) CQI Process or Quality	- Nineteen cases of CQI Process were implemented
Control (QC) Story	and 6 were completed at Kabale RRH.
-The number of cases of CQI	- Three cases of CQI Process are being implemented
Process or QC Story	at Entebbe RRH.
amounts to more than three.	
(2) Good practice of small CQI	At least one case of small CQI was practiced at 12 out
-All RRHs have at least one	of 17 target hospitals: Entebbe RRH, Gulu RRH, Jinja
good practice of small CQI.	RRH, Kabale RRH, Masaka RRH, Mbale RRH,
	Mbarara RRH, Moroto RRH, Mubende RRH, Naguru
	RH, Soroti RRH and Tororo GH.
(3) The average percentage of	Baseline in October 2016: 65.1%
medical equipment in status	Current data: 76.6%
A at all RRHs is higher than	(The details are shown in Table 1.)
70%.	
(4) Supervisions on 5S, UT, and	Integrated supervision of 3 components of health

ME, which are integrated	infrastructure management was conducted 10 times,
into the system of the MOH	in November 2018 (1), February 2019, March 2019
in a consolidated way, are	(2), April 2019 (1), May 2019 (2), July 2019 (1), August
implemented more than XX	2019 (1), October (1) and November 2019 (1).
times.	

1-5 Changes of Risks and Actions for Mitigation

The MOH's budget execution has not been stable. The training of Leadership/Management in workshops has been postponed due to budget constraints in 2019/2020.

According to the previous activities and inventory analysis, the constraints surrounding non-functioned equipment in hospital that could not be solved through the Project activities were identified and shared.

- The ICU department was closed and all of the installed equipment were not used due to staff shortage.
- Some laboratory analyzers for testing HIV and TB re no longer used due to policy change.
- Some devices are not used because the reagents/spare parts are no longer available or too expensive in Ugandan market. (e.g. biochemistry analyzer, autoclave, glucometer)
- Specialized doctors have no adequate skills to operate specific medical equipment. (e.g. endoscope, C-arm X ray, ventilator, defibrillator)
- Equipment is stored due to over supplied/duplication. (e.g. BP machine, weighing scale)
- Equipment without accessories and obsolete equipment by donation (e.g. dental unit)

Most of the above equipment are classified in condition B, C or E. Even if the Project activities are effective, it is difficult to solve the above constraints. One solution is to relocate unused equipment to other facilities. And HID/MOH shall start preparing policy/guidelines of equipment management.

Although it is not easy to solve existing issues, it might be possible to reduce these constraints by evidence-based planning using inventory database.

1-6 Progress of Actions Undertaken by JICA

1-7 Progress of Actions Undertaken by the Government of Uganda

The expenses covered by the MOH and Japan for the activities in the 1st and 2nd quarter of FY 2019/2020 are shown below. The MOH covered 46% (109,078,000UGX) for all activities. Although disbursement of the budget from Ministry of Finance, Planning and Economic Development and was delayed and some activities were postponed, the planned activities were generally implemented.

The MOH's continued funding of the Project shows that it appreciates the outcome of the Project activities, which will lead to sustainable implementation.

										UGX
		мон				MO	Н	Japan sid	le	
Da	te	Dept.	Activities	Participants	Venue	Allowa	ince	Allowand	e	Total
		Dept.				/Othe	ers	/Others	5	
2019	Jun	QAID	Retreat for 5S-CQI-TQM guidelines	20	Mukono		0%	18,736,000	100%	18,736,000
2019	Jun	HID	Supervision			900,000	35%	1,660,000	65%	2,560,000
2019	Aug	HID	The 24th WS Performance Meeting	79	Mbale	18,200,000	87%	2,625,000	13%	20,825,000
2019	Sep	CS	UT-Supervision	24		0	0%	1,120,000	100%	1,120,000
2019	Oct	HID	Specialized ME Training	27	Jinja	16,193,000	57%	12,060,000	43%	28,253,000
2019	Oct	HID	ME-Supervision			1,500,000	35%	2,760,000	65%	4,260,000
2019	Oct	CS	UT-Workshop	35	Entebbe	15,934,000	88%	2,240,000	12%	18,174,000
2019	Nov	CS	UT-Validation meeting for Guidelines	19	Kampala	0	0%	16,954,000	100%	16,954,000
2019	Nov	HID	The 25th WS Performance Meeting	62	Soroti	20,220,000	82%	4,570,000	18%	24,790,000
2019	Nov	HID	Bacic ME Training	27	Jinja	13,041,000	62%	8,056,000	38%	21,097,000
2019	Nov	CS	UT-Supervision			0	0%	3,520,000	100%	3,520,000
2019	Nov	QAID	Advanced Facilitators`Training	4	Kampala	0	0%	4,705,200	100%	4,705,200
2019	Nov	QAID	Benchmarking Visit	24	Kabale	23,090,000	77%	6,793,000	23%	29,883,000
2019	Dec	QAID	6th QI Conference	13	Kampala		0%	40,400,000	100%	40,400,000
				•		109,078,000	46%	126,199,200	54%	235,277,200

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

1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable) None.

1-10 Other Remarkable/Considerable Issues Related to/Affecting the Project (such as other JICA Projects, Activities of Counterparts, Other Donors, Private Sectors, NGOs, etc.)

- (1) The project for the Improvement of Regional Referral Hospitals in Northern Uganda is a grant aid project run by the Japanese government. This project aims to strengthen hospital functionality by constructing facilities and providing medical equipment to northern Uganda hospitals (Arua, Gulu and Lira RRHs), and improving the quality of and access to health services. JICA signed a grant agreement with the Government of Uganda to provide grant aid of up to 2.86 billion yen for this project on 26th April 2018. The target facilities of the grant aid project include RRHs. It is expected to create a positive influence on health service delivery in the hospitals and motivate hospital staff members to improve the workplace environment. The construction work for 3 hospitals starts in June 2019.
- (2) Regional Health Integration to Enhance Services (RHITES) is a 5-year project that has been operating since 2017, funded by the United States Agency for International Development (USAID). RHITES supports the Government of Uganda and key stakeholders to increase the availability and utilization of high-quality health services. The purpose of this project is to secure services to support the design and implementation of comprehensive, integrated investment in health, especially at the regional level, for HIV/AIDS and nutrition assistance in the entirety of Uganda. In terms of Quality Improvement, the achievement of outcomes in the project target facilities will be accelerated through human resource development done by RHITES.

(3) The Korea Foundation for International Healthcare (KOFIH) is a public affiliated organization of the Ministry of Health and Welfare of the Republic of Korea. KOFIH has been active in Uganda since 2017, implementing various projects, including establishing an emergency medical service system and community health system with the MOH. KOFIH targets the Bukomansinbi district and Masaka region. In the target area of KOFIH, the equipment and technology provided will contribute to improving the skills of the staff members in the project target facilities.

2 Delays of Work Schedule and/or Problems

2-1 Details, Cause

(1) Postponement of activity

The 6th Steering Committee Meeting (Output 1) was postponed due to the difficulty to arrange the schedule of all attendees. And Training of Leadership and Management of Maintenance Workshop (Output 4) was postponed due to luck of funding.

- (2) Delay of updating Inventory data of medical equipment
 The inventory updates are still delayed due to limited skills and poor internet connections.
 The analysis of the inventory data was completed for 11 out of 14 facilities.
- (3) Delay of development of User Training Guidelines User Training Guidelines has not been completed due to the delay of inspection by Senior Management Committee in MOH.
- (4) Delay of assessment of target facilities by HFQAP
 The MOH conducted a HFQAP assessment for 1,989 health facilities from 74 out of 127 districts (58.3%) and including 10 target hospitals out of 16 target facilities.

3 Modification of Project Implementation Plan

None.

II. Project Monitoring Sheet I & II

Attachments:

- I. Project Monitoring Sheet I
- II. Project Monitoring Sheet II
- III. Abbreviations

End

Project Monitoring Sheet I

Project Title:	Project on Improvement of Health Service through Health Infrastructure Management (II)	Version. 7
Implementing agency:	Quality Assurance & Inspection Department, Directorate of Planning & Policy, Ministry of Health (MOH) (5S-CQI-TQM)	Dated 26th F
	Integrated Curative Services Department, Directorate of Clinical Services, MOH (Utilization of Medical Equipment)	
	Health Infrastructure Department, Directorate of Clinical Services, MOH (Maintenance of Medical Equipment)	
Target Group:	(1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe RRH, Hoima RRH, Kabale RRH, Arua RRH, Lira RR	H, Moroto RRH, Muł
	(2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital	
Period of Project:	July 2016- July 2020	
Target Site:	Republic of Uganda	

Narrative Summary	Objectively Verifiable Indicators	Ac
Quality of health care services at all the RRHs in Uganda is improved.	 Clients' satisfaction level is improved to the target level. (XX) Clients' waiting time of patients for consultation, testing, clinical examination, and prescription of drugs are reduced XX% Maintenance cost regarding medical equipment is decreased in XX%. 	
Project Purpose		
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH.	 (1) CQI Process or QC Story The number of cases of CQI Process or QC Story amounts to more than three. (2) Good practice of small CQI All RRHs have at least one good practice of small CQI. (3) The average of percentage of medical equipment in status A at all RRHs is higher than 70%. (4) Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times. 	(3) 76.6% (avera

Februray 2020

Mukuju HC IV, Tororo GH

Achievement	Remarks
F CQI Process are being nd 6 were completed at cases of CQI Process are out at Entebbe GH. case of small CQI was 2 out of 17 target	Regarding Indicator (3), the inventories of Soroti RRH has not been uploaded in NOMAD databases yet.
rage of 13 RRHs out of 14	
supervision on 5S, UT, and health infrastructure vas conducted 10 times.	

Output 1			
1. [Project Steering Committee]	(1) The Project Steering committee meeting is	(1) The Steering Committee meetings	
Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH.	conducted every three months.	were conducted nearly every three	
		months. Detailed dates are as follows:	
	(2) The results of integrated support supervision	1) 29th May 2018	
	conducted by Project Implementation Teams and the	2) 17th September 2018	
	next quarter action plan developed from these results	3) 27th November 2018	
	are shared and approved at every Project Steering	4) 2nd February 2019	
	Committee meeting.	5) 22nd July 2019	
		The 6th Steering Committee meeting was	
	(3) The roadmap for incorporating the Project activities	rescheduled for February 2020, when the	
	into the policy and systems of MOH is established and	JICA Experts return to Uganda. In place	
	implemented by the Project Steering Committee.	of the 6th Steering Committee meeting,	
		the Project Manager and the Chief	
	(4) The Project activities are successfully incorporated	Advisor conducted several face-to-face	
	into the Ministerial Policy Statement of Ministry of	meetings to share the progress of the	
	Health.	Project activities.	
		(2) The Workplan of new fiscal year and	
		activity budget was approved at the	
		Steering Committee meeting held on	
		22nd July 2019.	
		(3) The budget of FY2019/2020 was	
		executed. However, the activity budget of	
		each department in the 1st quarter	
		2019/2020 is not enough.	
		(4) Based on discussion of the 3rd JCC	
		in 2018, MOH promised to bear some	
		part of the cost from operational budget	
		of FY2019/2020 of each department.	
		45% of total project activity cost has	
		cover by MOH under the operational	
Output2			
	(1)Score of module 1 (Leadership) and 6 (Health	(1) MOH collected data from 10 out of 17	
	Infrastructure) HFQAP Facility Assessment Tool	target hospitals , and the score will be	
	- All RRHs mark (i) 5 points out of 8 as full mark for	given to the Japanese side soon.	
	module 1 and (ii) 6 points out of 10 as full mark for	(2) According to 3rd M&E of 5S	
2.[Project Implementation Team: 5S-CQI-TQM]	module 6.	performance, 7 out of 17 target hospitals	
Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.	(2)Score of modified 5S M&E Sheet in 5S-CQI-TQM	reached the target (60%): Arua, Entebbe,	
	Guidelines	Jinja, Kabale, Mbale, Mbarara and	
	- All RRHs mark 33 points out of 54 as full mark at least		
	two consecutive years.	2 hospitals have prospects to achieve the	
		target at the 4th M&E: Masaka and	
		Naguru.	
Output 3			
	(1) There are at least two regional user trainers at all	(1) There were 31 regional User Trainers	Regarding Indicator (3),
	RRHs.	at 15 RRHs.	the inventories of Soroti
3.[Project Implementation Team: User Training]	(2) The number of UT conducted by regional User	(2) 1.87 (average number of training at	RRH has not been
Proper utilization of medical equipment through UT is improved in all RRHs.	Trainers is more than three as per year in every region.	14 RRHs and a Referral Hospital).	uploaded in NOMAD
	(3) The average of percentage of medical equipment in	(3) 3.5% (average of 11 RRHs out of 14	databases yet.
	status B at all RRHs is not higher than 4%.	RRHs).	
		, ,	
Output 4			
	(1) The average increase of scores between the pre-	(1) 29.4% (average of 9 past training).	Regarding Indicator (2),
	test and post-test is at least 15%.	(2) 15.2% (average of 13 RRHs out of 14	
4.[Project Implementation Team: ME maintenance]	(2) The average of percentage of medical equipment in		been uploaded in NOMAD.
ME maintenance and management capacity of workshops (WS) are strengthened.	status C and status E at all RRHs is not higher than		
	15%.		

Activities	Input
1-1 Establishment of foundation for the Project and implementation	The Japanese side
1-1-1 Establish Project Steering Committee	1. Dispatch of Experts 1) Chief advisor / QI Management System
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	2) 5S-CQI-TQM
1-1-3 Develop Terms of Reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project	 3) Utilization of Medical Equipment 4) Maintenance of Medical Equipment 5) Project Coordinator/ Training Management
1-1-4 Conduct baseline survey	2. Machinery and equipment
1-2 Support Supervision on health infrastructure management	1) Necessary supplies for 5S-CQI-TQM to target hospitals and MOH headquarters
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels	 2) Testing and calibration tools and equipment etc. 3) Computers for medical equipment inventory management and data analysis 3. Allocation of operational costs for project activities
1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME	
1-3 Project implementation, monitoring and evaluation and institutionalization	
1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle	
1-3-2 Conduct a meeting to review the established system in MOH	
1-3-3 Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections to the Ministerial Policy Statement	
1-3-4 Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure management compiling 5S, UT and ME	
1-3-5 Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME	
2.[Project Implementation Team: 5S-CQI-TQM]	
2-1 Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	
2-2 Define criteria for national show case of 5S-CQI-TQM and review national show case(s)	
2-3 Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels	
2-4 Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.	
2-5 Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	
2-6 Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	
2-7 Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI	
2-8 Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and ME in collaboration with UT and ME activities under the direction of Project Steering Committee Activity 1-2-2	

Attachment I

3.[Project Implementation Team: User Training]
3-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary
3-2 Conduct refresher training of user trainers in the previous Project phase.
3-3 Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals
3-4 Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI- TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2
4.[Project Implementation Team: Maintenance]
4-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary
4-2 Conduct leadership and management training for workshop managers including inventory data analysis
4-3 Conduct training for workshop staffs on maintenance of basic medical equipment
4-4 Conduct training for core staff of workshops in first line maintenance of specialized medical equipment
4-5 Strengthen capacity of Central Workshop and Department of Health Infrastructure to support Regional Workshops
4-6 Support Workshops to develop a system for sharing knowledge and skills

Attachment I

Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

Project Title: Project on Improvement			Pla			2016				20	017			2	018			2	2019			2	020				Moni	itoring
			Act	tual I		II		IV	I		III	IV	1	11	III	IV	1			IV	1		III	IV	R	emarks	Issue	Solution
pert						1	I				1	1			1	1						1		1			Issue	Solution
hief Advisor/QI Management System			Pla Acti	tual																							None.	None.
ssist Chief Advisor/QI Management System			Pla Act																								None.	None.
S-CQI-TQM ①			Pla Act																								None.	None.
S-CQI-TQM (2)	7 [Pla Acti																								None.	None.
ilization of Medical Equipment	7		Pla Act																								None.	None.
aintenance of Medical Equipment			Pla																								None.	None.
oject Coordinator/Training Management	1		Pla	an																							None.	None.
pment							_ · _ ·	· ·		<u> </u>																		
oject vehicles and equipment/materials necessary for the Projec ministration	t		Pla																								None.	None.
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	ing system	n for he	Act	tual	-											IV				IV				IV	Responsib Japan	le Organization	Achievements	
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Sub-Activities Dut 1 [Project Steering Committee] Supporting/supervis 1 Establishment of foundation for the Project and implementation 1-1-1 Establish Project Steering Committee 1-1-1 Establish Project Steering Committee 1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, U and ME 1-1-3 Committee and Project Implementation Teams and action plans for implementation of the Project 1-1-4 Conduct baseline survey 2 Support Supervision on health infrastructure management Review and revise existing supervision system and tools	000	n for he	Actu alth infrast Actu Actu Actu C Pla Actu Actu Actu	tual I tructure r an I tual I an I tual I an I tual I an I tual I	-																				Japan Expert(s) Expert(s) Expert(s)	Uganda All concerned Department members of MOH All concerned Department members of MOH Steering Committee Implementation Team	Project Steering Committee was established. Project Implementation Teams were established. Work Plan was approved by Project Steering Committee. Situation analysis for all of the target hospitals and workshops was conducted. Progress of all activities were shared in Steering	None. None. None. None. The Project team discuss with QAID
Sub-Activities Dut 1 [Project Steering Committee] Supporting/supervis 1 Establishment of foundation for the Project and implementation 1-1-1 Establish Project Steering Committee 1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, U and ME 1-1-3 Develop terms of reference (TOR) for Project Steering plans for implementation of the Project 1-1-4 Conduct baseline survey 2 Support Supervision on health infrastructure management 1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of SS-	000	n for he 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actu alth infrast Actu Actu C Pla Actu Actu Actu Actu Actu Actu Actu Actu	tual I an I tual I	-																				Japan Expert(s) Expert(s) Expert(s)	Uganda All concerned Department members of MOH All concerned Department members of MOH Steering Committee Implementation	Project Steering Committee was established. Project Implementation Teams were established. Work Plan was approved by Project Steering Committee. Situation analysis for all of the target hospitals and workshops was conducted. Progress of all activities were shared in Steering Committee meeting. 10 target facilities were	None. None. (None. None. The Project team n discuss with QAID to cover the target outstanding under
Sub-Activities Dut 1 [Project Steering Committee] Supporting/supervis 1 Establishment of foundation for the Project and implementation 1-1-1 Establish Project Steering Committee 1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, U and ME 1-1-3 Develop terms of reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project 1-1-4 Conduct baseline survey 2 Support Supervision on health infrastructure management 1-2.1 Review and revise existing supervision system and tools through enrichment of checklists of HEQAP(Health Facility	000	n for he	Actu alth infrast Actu Actu C Pla Actu Actu Actu Actu Actu Actu Actu	tual I an I tual I	-																				Japan Expert(s) Expert(s) Expert(s) Expert(s)	Uganda All concerned Department members of MOH All concerned Department members of MOH Steering Committee Implementation Team	Project Steering Committee was established. Project Implementation Teams were established. Work Plan was approved by Project Steering Committee. Situation analysis for all of the target hospitals and workshops was conducted. Progress of all activities were shared in Steering Committee meeting. 10 target facilities were assessed by checklist of HFQAP.	None. None. None. None. The Project team to discuss with QAID to cover the target outstanding under HFQAP.
Sub-Activities Dut 1 [Project Steering Committee] Supporting/supervis 1 Establishment of foundation for the Project and implementation 1-1-1 Establish Project Steering Committee 1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, U and ME 1-1-3 Develop terms of reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project 1-1-4 Conduct baseline survey 2 Support Supervision on health infrastructure management 1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels	0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Image: Appendix and the second seco	Actu alth infrast Actu Actu C Pla Actu Actu Actu Actu Actu Actu Actu Actu	tual I an tual an tual	-																				Japan Expert(s) Expert(s) Expert(s) Expert(s)	Uganda All concerned Department members of MOH All concerned Department members of MOH Steering Committee Implementation Team	Project Steering Committee was established. Project Implementation Teams were established. Work Plan was approved by Project Steering Committee. Situation analysis for all of the target hospitals and workshops was conducted. Progress of all activities were shared in Steering Committee meeting. 10 target facilities were assessed by checklist of HFQAP. Joint supervision of 3 components was conducted	None. None. None. The Project team v discuss with QAID to cover the target outstanding under
Sub-Activities Dut 1 [Project Steering Committee] Supporting/supervis 1 Establishment of foundation for the Project and implementation 1-1-1 Establish Project Steering Committee 1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, U and ME 1-1-3 Develop terms of reference (TOR) for Project Steering plans for implementation of the Project 1-1-4 Conduct baseline survey 2 Support Supervision on health infrastructure management 1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of SS-	0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n for he 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actu alth infrast Actu Actu Constant Actu Actu Actu Actu Actu Actu Actu Act	true I an tual an an tual an tual tual an tual tual an tual an tual an an tual an	-																				Japan Expert(s) Expert(s) Expert(s) Expert(s)	Uganda All concerned Department members of MOH All concerned Department members of MOH Steering Committee Implementation Team	Project Steering Committee was established. Project Implementation Teams were established. Work Plan was approved by Project Steering Committee. Situation analysis for all of the target hospitals and workshops was conducted. Progress of all activities were shared in Steering Committee meeting. 10 target facilities were assessed by checklist of HFQAP. Joint supervision of 3	None. None. None. None. The Project team to discuss with QAID to cover the target outstanding under HFQAP.

Attachment II

Version	. 7		
Dated	26th	February	2020

1	1-3 Projec	implementation, monitoring and evaluation and institutionalizati	·																														
	1-3-1	Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle	00	00	00	 Plan Actu 																											
	1-3-2	Conduct a meeting to review the established system in MOH	00	00		Pla																											
						Actu	ual																										
	1-3-3	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement	00	0		Pla																											
	1-3-4	Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure	00	00	00	O Pla	in																										
		management compiling 5S, UT and ME				Actu	ual																										
		Conduct an end-line survey on health infrastructure	00	00		O Pla	in																										
	1-3-5	management, including 5S-CQI-TQM, UT and ME				Actu	ual																										
Ac	tiviti					Pla	in	: :	2	016	:	1 1		: 1	20)17			201	18			1 1	2	2019				: 1		2020	: 1	
		Sub-Activities				Actu			II			IV			II		IV					V	Ι				IV						IV
Out										ivition	210 0	tranat	thono	d thre	map C() annro	ach in al	I RRHs															
	tput 2 [F	Project Implementation Team: 5S-CQI-TQM] Resou	irce m	anage	ementa	ind quain	ty imp	roveme	ent act	ivities	ares	reng	inene	: 1	i i		1 : :	1 : :	 : 1							: 1		1 :	: 1				
	tput 2 [F 2-1	Develop and/or update guidelines, manuals, handbooks,		o o		O Plan		roveme				treng																					
				o ○			in	rovem																									
		Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and		00) Pla	ual																										
	2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	00			 Plan Actu Plan Actu 	n lai																										
-	2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and	00	00		 Plan Actu Plan Actu Plan 	n lual lual lual lual lual lual lual lua																										
-	2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the	00			 Plai Actu Plai Actu Plai Actu Plai 	in la																										
-	2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels	00			 Plai Actu Plai Actu Plai Actu Plai 	n kal																										
	2-1 2-2 2-3 2-4	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at	00			 Plai Actu Plai Actu Plai Actu Actu 	n di																										
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	2-1 2-2 2-3 2-4 2-5	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI Strengthen function of quality improvement team (QIT) and				 Plai Actu Plai Actu Plai Actu Plai Actu Plai Actu Plai 	nn ann ann ann ann ann ann ann ann ann																										
	2-1 2-2 2-3 2-4	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at				 Plan Actu Plan Actu Plan Actu Plan Actu Plan Actu Actu Actu Actu Actu Actu Actu Actu 	nn ann ann ann ann ann ann ann ann ann																										
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	2-1 2-2 2-3 2-4 2-5 2-6	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities				 Plai Actu Actu Actu 	nn an a																										
	2-1 2-2 2-3 2-4 2-5 2-6	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities Conduct 5S-CQI-TQM training to target facilities based on the				 Plan Acturation Plan Acturation Plan Acturation Plan Acturation Acturation Plan Acturation Acturat	nn an a																										

		Project Steering Committee	None.
Expert(s)	Steering	meeting was held in July	
(0)	Committee	2019.	
		Project Steering Committee	None.
Expert(s)	Steering	meeting was held in July	
Experi(s)	Committee	2019.	
		Joint supervision of 3	None.
		components on health	
		infrastructure management	
		was conducted 10 times, in	
	Stearing	November 2018 (1),	
Expert(s)	Steering Committee	February 2019, March 2019 (2), April 2019 (1), May	
	00111111100	2019 (2), July 2019 (1),	
		August 2019 (1), October	
		(1) and November 2019 (1).	
		(1) 01 01 0	N
		(1) 6th QI Conference was held on 3-5 December 2019	None.
		at Munyonyo. A keynote	
		speech was done by 3	
		presenters of Kabale RRH	
		as well as Prof. Handa. 9	
		orals and 2 posters were	
		done by MOH and 4 target	
	Implomentation	hospitals (Kabale, Gulu,	
Expert(s)	Implementation Team	Mubende and Naguru).	
	reall	(2) Kabale RRH hosted 8 hospitals (Fort Portal RRH,	
		Hoima RRH, Moroto RRH,	
		Soroti RRH, Tororo GH and	
		3 NRH(Mulago, Kawempe	
		and Kiruddu)) for a	
		benchmarking visit on 28	
		November. MOH also joined	
		the visit.	
		Kabale RRH completed a	None. Beyond expectation
	Implementation	TQM project on	of project experts.
Expert(s)	Team	functionalization of medical	
		equipment.	
Responsib	e Organization		Issue &
	J	Achievements	
		71011101101110	Countermore counce
Japan	Uganda		Countermeasures
Japan	Uganda		
Japan	Uganda	(1) 5S-CQI-TQM Guidelines	Countermeasures None.
Japan	Uganda		
		(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at	
Japan Expert(s)	Uganda Implementation Team	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in	
	Implementation	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December.	
	Implementation	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators'	
	Implementation	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being	
	Implementation	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators'	None.
	Implementation	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed.	
	Implementation Team	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly	None.
	Implementation Team Steering	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly	None.
Expert(s)	Implementation Team	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly	None.
Expert(s)	Implementation Team Steering	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly	None.
Expert(s)	Implementation Team Steering	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines.	None.
Expert(s)	Implementation Team Steering Committee	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines.	None.
Expert(s)	Implementation Team Steering Committee Steering	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines.	None.
Expert(s) Expert(s)	Implementation Team Steering Committee	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines.	None.
Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines.	None.
Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was	None.
Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines.	None.
Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1.	None.
Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators	None.
Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1.	None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	(1) 5S-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) 5S-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced	None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Understand at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November.	None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local	None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised	None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local	None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised	None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals.	None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly described at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS	None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals.	None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as davanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and 5S training were conducted in November 2018. In reply to	None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS training were conducted in November 2018. In reply to initiative of MOH, SS	None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SSS training were conducted in November 2018. In reply to initiative of MOH, SS training was done for 4	None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 SS-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS training were conducted in November 2018. In reply to initiative of MOH, SS	None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS training were conducted in November 2018. In reply to initiative of MOH, SS training was done for 4 hospitals in Kampala in May	None. None. None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Implementation Team Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS training were conducted in November 2018. In reply to initiative of MOH, SS training was done for 4 hospitals in Kampala in May	None. None. None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS training were conducted in November 2018. In reply to initiative of MOH, SS training was done for 4 hospitals in Kampala in May	None. None. None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS training were conducted in November 2018. In reply to initiative of MOH, SS training was done for 4 hospitals in Kampala in May	None. None. None. None. None. None. None. None.
Expert(s) Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team Implementation Team	(1) SS-CQI-TQM Guidelines were endorsed at MOH in September. They were launched and delivered at 6th QI Conference in December. (2) SS-CQI-TQM Facilitators' Guidebook are being developed. The criteria were clearly described at the Guidelines. Qualification, role and responsibility were clearly stated at the Guidelines. The Leadership Improvement Seminar was conducted in Project term 1. 4 5S-CQI-TQM Facilitators were certified as advanced facilitators, following 3-day advanced training in November. Experts and a local consultant have supervised target hospitals. Training of new national SS- CQI-TQM facilitators and SS training were conducted in November 2018. In reply to initiative of MOH, SS training was done for 4 hospitals in Kampala in May	None. None. None. None. None. None. None. None.

	Project Implementation Team: User Training] Prop				l	-																										The validation of User	None.
3-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	00			0 0	Plar																								Expert(s)	Implementation Team	Training Guidelines was held in November 2019.	
3-2	Conduct refresher training of user trainers in the previous	00	С		0	Plar	_																							Expert(s)	Implementation Team	The 4th Refresher training was merged with 5th TOT due to the shortage of MOH	The 5th Refresher and the 5th TOT w merged into User to
	Project phase			0	0	Actu																										budget. The 5th TOT was merged	workshop. The 5th Refresher
3-3	Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals					Actu																								Expert(s)	Implementation Team	with 4th Refresher training due to shortage of MOH budget.	and the 5th TOT w merged into User t workshop.
3-4	Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM and ME activities aiming at CQI under the direction of Project			0		Plar	1																							Expert(s)	Implementation Team	Support supervision was conducted.	None.
	Steering Committee Activity 1-2-2					Actu	al																										
put 4 [l	Project Implementation Team: ME maintenance] N	IE mai	intena	ince a	and n	nanage	ment c	apacity	/ of w	orksho	ops (V	/S) are	e stren	gthen	ed																		
4-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	00	00		0 0	Plar	1																							Expert(s)	Implementation Team	Templates for Workplan, Quarterly report and routine work forms have been finalized. Currently, SOPs	The new WS Ope Manual might be and published by 2020.
	Information as necessary			Ш		Actu	al																								Team	for preventive maintenance are being prepared.	
4-2	Conduct leadership and management training for workshop				0 0	Plar																								Expert(s)	Implementation	Training was not conducted, but NOMAD guidance and inventory analysis were	, None.
	managers including inventory data analysis					Actu	al																								Team	constantly carried out. 7 PCs were provided by JICA Project.	
4-3	Conduct training for workshop staff on maintenance of basic medical equipment			00	0 0	Plar Actu																								Expert(s)	Implementation Team	A training was held at Jinja in November 2019, and 23 technicians were certified.	None.
4-4	Conduct training for core staff of workshops in first line maintenance of specialized medical equipment				0 0	Plan																								Expert(s)	Implementation Team	A training was held at Jinja in October 2019, and 27 engineers/technicians were certified.	None.
4-5	Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops	00			0	Plar																								Expert(s)	Implementation Team	2 times of WS Performance Review Meetings and support supervisions were implemented with HID/MOH	None.
4-6	Support Workshops to develop a system for sharing knowledge and skills			0	0	Actu Plar Actu	1																							Expert(s)	Implementation Team, all WS managers	and Central WS. The WS Performance Review Meetings and routine support supervisions are institutionalized as the platform for sharing knowledge and skills. A revised quarterly report is also useful.	None.
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To the CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 8 (Term: 1st January 2020 – 30th April 2020)

Name: Dr. Olaro CharlesTitle: Project DirectorName: Hiroshi TaseiTitle: Chief AdvisorSubmission Date: 25th June 2020

I. Summary

1 Progress and Achievements of Project

1-1 Progress of Inputs

[The Japanese side]

1-1-1 Dispatch of JICA Experts

AT .	2020							Total
Name	1	2	3	4	5	6	7	(days)
Hiroshi Tasei Chief Advisor/QI Management System①				50				50
Shizu Takahashi Vice Chief Advisor/QI Management System②			31					31
Naoki Take 5S-CQI-TQM①				34				34
Yujiro Handa 5S-CQI-TQM②			20					20
Yasuhiro Hiruma Utilization of Medical Equipment				62				62
Naoki Mimuro Maintenance of Medical Equipment				54				54
Emi Onosaka Project Coordinator/Training Management				48				48

[The Ugandan side]

1-1-2 Assignment of Counterparts

- (1) One Ministry of Health (MOH) official (a Senior Nursing Officer, Nursing Department) carried out support supervision for User Trainers in March 2020.
- (2) Two MOH Officials (a Senior Engineer and a Biomedical Engineer, Infrastructure Department, MOH (HID/MOH)) carried out support supervision for Regional Workshops (RWSs) in March 2020.

1-1-3 Terminal Evaluation Mission for the Project from JICA Headquarters

The Terminal Evaluation Mission for the Project, headed by Ms. Okada Miku, Director of Health Team 1 at JICA Headquarters, conducted the Terminal Evaluation of the Project's progress from 25th February to 13th March 2020.

Field reviews and evaluation work were conducted from 27th February to 11th March 2020. Members from JICA Headquarters were not able to travel to Uganda due to the outbreak of the coronavirus (COVID-19). However, they engaged in the Terminal Evaluation work indirectly through the exchange of report documents and participation in teleconferences with Japanese expert, Ugandan counterparts, and the JICA Uganda office.

1-1-4 4th Joint Coordination Committee (JCC) meeting

The Project's 4th JCC meeting was held on 10th March 2020. It was chaired by the Director of Health Services Curative Services, Dr. Olaro Charles. Eight officials from the MOH, six members from the JICA Uganda Office, one member from the Embassy of Japan, and 13 top management members from target facilities were invited to the JCC meeting. The agenda was as follows:

- 1) Overview of the Project operation budget,
- 2) Presentation of the progress reports from each pillar,
- 3) Terminal Evaluation report from Evaluation Team, and
- 4) Reaction and comments from the MOH.

Participants mainly shared and discussed the following:

- Appreciation for the costs covered by the MOH for the 3rd quarter of the 2019/2020 Financial Year (FY): approximately 38% of the costs for 5S-CQI(KAIZEN)-TQM, 55% of the costs for User Training (UT) and 52% of the costs for Medical Equipment Maintenance (ME);
- 2) Sharing of results of the Terminal Evaluation using the five DAC criteria for evaluating the Project: relevance, efficiency, effectiveness, impact and sustainability.
- 3) Based on the evaluation results, the MOH requested one-year extension of the Project with providing financial and human resources by the Ugandan side and technical cooperation by the Japanese experts and implement the following approaches during the period.
 - i) Sharing knowledge of the Center of Excellence (COE)
 - ii) Cultivating a culture of safety to achieve "Patient Safety"

1-2 Progress of Activities

1-2-1 Activities of Output 1

(1) Terminal Evaluation

Details	 Schedule: 25th February - 13th March 2020 					
	• Site survey: 2nd and 3rd March 2020 (Kabale and Masaka					
	Regional Referral Hospitals (RRH)					
	 Interview of counterparts: 4th, 5th and 6th March 2020 					
	Holding of 4th JCC					
	Agenda of JCC: 1) Review of the previous minutes and action					
	points, 2) Overview of the Project operation budget, 3) Progress					
	reports on the Project activities from each pillar, 4) Terminal					
	Evaluation report from the Evaluation Team and 5) Reaction and					
	comments from the MOH					
Achievements	Terminal Evaluation Survey					
	 Interviews were conducted with Dr. Jackson Amone, Commissioner Clinical Services (Project Manager); Dr. Joseph 					
	Okware, Director, Governance and Regulation; Eng. Sitra					
	Mulepo, Senior Engineer, Health Infrastructure Department; and					
	Sr. Harriet Kembabazi, Senior Nursing Officer, Nursing					
	Department.					
	• The 4th JCC					
	Budget costs were shared by all members for each activity. The					
	MOH was able to cover about 50% of the cost of all activities,					
	despite the difficulty of budget allocation. The RRHs requested					
	further support from the MOH due to the tight hospital budget.					
	> Participants confirmed the necessity of implementing					
	Supervision for facilities lead by MOH where the progress of 5S					
	activities have been delayed.					
	> Terminal evaluation mission members shared the following					
	results of the Terminal Evaluation:					
	i) The relevance of the Project was considered high and					
	effectiveness upper-moderate, while the impact showed					
	significant achievements.					
	ii) Further enhancement of 5S activities across all departments					
	is needed in RRHs.					
	iii) Further promotion of CQI activities is necessary.					
	iv) Establishment of a 5S-CQI model hospital is recommended.					

Way Forward/	• The MOH will apply to the Ministry of Finance, Planning and	
Challenges	Economic Development (MOFPED) for approval of the extension	
	of the Project.	
	• After approval from the MOFPED, the MOH will officially apply to	
	JICA for an extension and conclude the amendment of the Record	
	of Discussion.	
	• Due to the COVID-19 pandemic, the above extension process	
	between the Ministry of Health and the Ministry of Finance has	
	been delayed.	

1-2-2 Activities of Output 2

(1) Development of 5S-CQI(KAIZEN)-TQM Facilitators' Guidebook

Related Activity	Planned from April - December 2018	
2-1		
Details	• The draft for 5S-CQI(KAIZEN)-TQM Facilitators' Guidebook was	
	shared with the MOH and JICA (Headquarters and the Uganda	
	Office) and was finalized.	
	An International Standard Book Number (ISBN) was acquired for	
	the guidebook.	
	• The guidebook was printed (1,000 copies) and distributed to	
	participants at the 4th JCC meeting.	
Achievements	• The 5S-CQI(KAIZEN)-TQM Facilitators' Guidebook was printed	
	and delivered to the Project office. The guidebook was distributed	
	to participants at the 4th JCC Meeting in March 2020.	
	 The guidelines have been uploaded to the MOH website. 	
Way Forward/	• The MOH will take responsibility for stock-taking and delivery of the	
Challenges	guidebook.	

(2) 4th M&E of 5S Performance

Related Activity	Planned in March 2020	
2-2		
Details	• 5S-CQI(KAIZEN)-TQM National Facilitators visited 16 target	
	hospitals to evaluate the performance of 5S in January and February	
	2020.	
	• In February and March 2020, the Japanese expert analyzed the data	
	to rate the performance of 5S.	

	• Important findings and implications were presented at the 4th JCC	
	Meeting.	
	• A M&E report was compiled and emailed to the MOH, all target	
	hospitals and national facilitators.	
Achievements	• The latest 5S performance and implications for further actions of 16	
	target hospitals were disseminated.	
	 The following are the key findings: 	
	\checkmark 15 out of 16 target hospitals scored 60% or more on the 4th M&E.	
	\checkmark 9 out of 16 target hospitals surpassed 60% for at least two years	
	in a row (See 1-3-1, Summary of Achievements).	
	\checkmark The number of units scoring at least 60% for 5S performance	
	increased tremendously, and all target hospitals had at least one	
	unit beyond the target score.	
	The implications of the results of the 4th M&E are as follows:	
	✓ Continuation of the steady performance of 5S at the ground level	
	depends critically on the steady performance of top	
	management and the Quality Improvement Team (QIT).	
	\checkmark The adequacy of the QIT's work matters, as well as the quantity	
	and frequency. The QIT's performance at most target hospitals	
	has quantitatively improved, but it can be said that some QITs	
	are performing the tasks inadequately.	
Way Forward/	 Target hospitals will take actions to mitigate weaknesses of 5S 	
Challenges	implementation (e.g. inadequate performance of QIT) and to move	
-	forward to CQI (KAIZEN), based on the supervision of MOH.	
k		

(3) Technical Support of Patient Safety at Kabale RRH

Related Activity	Started from February 2020	
2-6/2-8		
Details	1) 11th February 2020: Japanese experts introduced the concept of	
	incident reporting and proposed that Kabale RRH commence the	
	practice. Subsequently, 18 members of the QIT, headed by the	
	Hospital Director, were given technical support in formulating a	
	strategy to introduce the concept in the hospital.	
	2) 20th February 2020: Japanese experts trained 35 staff members	
	(the Director, QIT members and medical doctors) in incident	
	reporting. Topics included the relationship between safety and the	

	quality of health services, steps to establish a "safety culture" and	
	the role of incident reporting. The participants also practiced filling	
	out the reporting form and providing feedback.	
Achievements	• A strategy for incident reporting was formulated. The following	
	departments were initially designated as pilot areas: the Outpatient	
	Department (OPD), Casualty, Theatre, Maternity, Pharmacy and	
	Laboratory. It was also decided that the QIT will collect the reports	
	weekly, analyze them monthly and provide feedback.	
	 Thirty-five staff members were trained in incident reporting. 	
	 A reporting form was designed. 	
	• At Kabale RRH, the incident report was named "Hospital Safety	
	Report (HSR)" to alleviate the negative image of the word "incident".	
Way Forward/	• The QIT will formulate a detailed action plan for introducing the HSR,	
Challenges	including training within the hospital.	
	• Continuous technical support will be needed for effective collection	
	and analysis of the reports.	

1-2-3 Activities of Output 3

(1) Development of UT Guidelines and Manuals

Related to	Planned from June 2018 - March 2019	
Activity 3-1		
Details	• Date and Venue: 14th February 2020, 3rd floor board room, MOH.	
	• Participants: 5 MOH staff members, 2 RRH hospital directors, 1	
	HID/MOH staff member, Japanese experts and secretaries.	
	• Re-approval of the User Training (UT) Guidelines that failed in	
	December 2019.	
Achievements	• The UT Guidelines were approved by the Technical Working Group.	
	• The UT Manual was completed and printing is in preparation.	
Way Forward/	• Finalization of the guidelines requires approval at the Senior	
Challenges	Management Committee Meeting (SMC) and Top Management	
	Committee Meeting (TMC).	
	• The MOH is going to determine the department responsible for UT as	
	soon as possible.	
	• After approving the guidelines, it is necessary to prepare for printing.	

Related to	Planned in April 2019		
Activity 3-2			
Details	• Date and Venue: 24th February 2020 at Hoima RRH and 17th March		
	2020 at Mbarara RRH		
	• Facilitators: 1 from the	he MOH, 1 from the JI	CA Project, and 2 User
	Trainers		
	 Participants: 2 User 1 	Frainer Candidates from	the 2 RRHs
	Objective: To conduct	ct a final written and pra	actical examination for 2
	User Trainers		
Achievements	 2 User Trainers passed the written exam. 		
	 2 User Trainers took the practical exam, and both passed. 		both passed.
Way Forward/	• The 2 User Trainers a	are inexperienced and r	need to review and learn
Challenges	the training provided by senior User Trainers.		
	• It will be necessary for the senior User Trainers to provide continuous		rs to provide continuous
	technical support.		
	No.		
Written exam (Hoima)	Practical exam (Hoima)	Written exam (Mbarara)	Practical exam (Mbarara)

(2) Final Exam for Additional User Trainer

(3) Support Supervision

Related to	Planned from September 2018-May 2020.		
Activity 3-4			
Details	• The following hospitals were supervised from February to March		
	2020:	2020:	
	24th Feb.	24th Feb. Hoima RRH	
	2nd Mar.	Entebbe RRH	
	3rd Mar. Naguru RRH		
	4th Mar. ⁾ Masaka RRH		
	16th Mar.	Kabale RRH	
	17th Mar.	Mbarara RRH	
	18th Mar. Fort Portal RRH		
	19th Mar.	Mubende RRH	

	 In other hospitals besides Masaka RRH, UT activities are being properly conducted. It is important for hospital managers and User Trainers to maintain this state. 	
	• The MOH needs to re-notify each facility about the importance of UT and direct the Director of Masaka RRH to support UT activities.	
	hospital works, and he is not fully able to support UT's activities.	
Way Forward/ Challenges	 The management at Masaka RRH has not been able to raise enough funds since the last visit. The director was busy with other 	
Woy Forward	mapping information system.	
	 At Mubende RRH, the UT team has started to create an equipment 	
	simple geographic mapping information system for equipment, in five departments.	
	• At Fort Portal RRH, the UT and ME teams have jointly created a	
	Mubende RRH has improved.	
	Hoima RRH, Kabale RRH, Masaka RRH, Fort Portal RRH and	
	among User Trainers.As a result of UT, the utilization rate of medical equipment at	
	• The necessity of UT for category B medical equipment was shared	
	lower health facilities.	
Achievements	• User Trainers continued to conduct UT at target hospitals and	
	(IP).	
	results of the inventory data analysis. 5) Introduce activity examples with other Implementing Partner	
	4) Explain the equipment status and response, based on the	
	Trainers and the workshop (WS). 4) Explain the equipment status and response, based on the	
	3) Check the status of the collaboration between the User	
	equipment.	
	implementation and progress on the action plan.2) Provide advice on improving the utilization rate of medical	
	1) Confirm and provide guidance on the status of UT	
	• The main objectives were as follows:	
	RRH, Mbale RRH, Jinja RRH) was postponed.	
	Due to COVID-19, the support supervision for the following facilities (Arua RRH, Gulu RRH, Lira RRH, Soroti RRH, Moroto	

Kabale RRH	Mubende RRH	Fort Portal RRH

1-2-4 Activities of Output 4

(1) Training on Basic Management Capacity Enhancement

Related to	Planned in March - April 2020.	
activity 4-1 and 4-2		
Details	 Date and Venue: 2nd - 6th March 2020 at Hoima RRH Target Areas: A) Developing Standard Operating Procedures (SOPs) for planned preventive maintenance for 29 equipment B) Conflict management and motivation of the staff C) Final revisions of the WS Operation Manual D) Learning how to implement CQI(KAIZEN) activities Participants: 30 engineers and technicians of the WSs Facilitators: 3 in total A), C) and D): A HID/MOH engineer and a Japanese expert. B): A senior officer from the Human Resources Department, MOH. Objectives: The participants should be able to develop the manuals, prepare an appropriate CQI(KAIZEN) action plan and 	
Achievements	 learn basic skills of conflict management. Although there was no written test, the practical skills of the trainees improved in all target areas through their active participation in group work sessions and discussions. 	
Way Forward/ Challenges	 Each trainee was assigned the following activities after training in order to apply the obtained knowledge and skills into practice: Conduct a feedback session to share the training materials and acquired knowledge with other technicians. Implement at least one small CQI(KAIZEN) action plan. Commence the use of SOPs for preventive maintenance. Since the trainees developed the WS Operation Manual and SOPs 	

for each piece of equipment in accordance with their experiences, it can be expected that these documents will be utilized in their workstation properly.



(2) Support Supervision for WSs

Related to	Twice a year (Y	ear-round activity)							
activities 4-5 and									
4-6									
Details	• Support supervisions for 15 WSs were carried out according to the								
	following sche	edule;							
	February - Mar	rch 2020							
	16-20 Feb.	Moroto, Soroti, Mbale, Jinja							
	24-25 Feb.	Central, Naguru							
	15-19 Mar.	Lira, Gulu, Arua, Hoima							
	22-26 Mar. (*)	Masaka, Mbarara, Kabale, Fort Portal, Mubende							
	*The final round	I in late March was held by the Ugandan counterparts							
	and JICA Project local staff, because the Japanese expert returned to								
	Japan due to the COVID-19 crisis.								
	 The agenda had five main areas: 								
	1) Inventory	management with the NOMAD database							
	2) Use of an	nalyzed inventory data for maintenance planning &							
	budgeting,	,							
	3) Ongoing (CQI(KAIZEN) follow-up							
	4) Equipment status verification tour at selected sections in RRHs								
	5) Annual assessment of the WSs' performance.								
Achievements	• The HID/MOH & JICA team was able to supervise all Regional WSs								
	as planned.								
	• Areas 1) to 3) from the above agenda have been gradually improving								

	and/or maintaining a moderate status in most WSs.						
	• Regarding area 4), the equipment status could be updated						
	appropriately at most RRHs. However, at a few RRHs, missing						
	information (serial number, model number and others) were identified						
	in the equipment inventory database.						
	• As a result of the assessment (area 5 in the above agenda), 10 out						
	of the 13 target WSs scored 70% or higher, and the average score						
	was 80%, which indicates a high level of performance. The score						
	sheet is shown in Table 1 in the next section						
	• A newly employed biomedical engineer in HID/MOH and the Central						
	WS senior technicians participated in this activity as supervisors in						
	connection with Activity 4-5, "Strengthening the capacities of the						
	Central WS and HID/MOH."						
Way Forward/	• The number of CQI (KAIZEN) activities being implemented is						
Challenges	increasing because of the above-mentioned training on Basic						
	Management Capacity Enhancement, but is still small. It is necessary						
	to provide continuous technical advice through support supervision.						



Equipment verification tour at Lab, Naguru

Meeting scene, Jinja

(3) Assessment of the WSs (4-1, 4-5, 4-6)

Related to	Unplanned, but it has been done once a year since October 2016
Activity 4-1, 4-5	
and 4-6	
Details	• The HID/MOH and the Project assessed 13 WSs in February and
	March 2020 while carrying out support supervision. The assessment
	was done using 13 performance indicators as described in the table
	below.
	• The results were to be shared with stakeholders at the next WS

	Performance Review Meeting scheduled for April 8th, but the							
	meeting has been postponed due to COVID-19.							
Achievements	1	•	•	been routinely implemented 4 times				
Acmevements			•	•				
	sin	ice 2016, initiate	ed by the HI	D/MOH.				
	● Th	e past assessm	nent dates, a	average scores and names of the best				
	W	Ss are summari	zed below:					
	No	Month/Year	Average	Name of The Best WS (score %)				
			score					
	1 st	9-10/2016	(%) 59%	Fort Portal (83%)				
	2 nd	9/2017	71%	Fort Portal (92%), Lira (92%)				
	3 rd	2-3/2019	74%	Fort Portal (90%), Lira (90%)				
	4 th	2-3/2020	80%	Fort Portal (96%), Soroti (93%)				
	• Th	e two high-per	rforming W	Ss, Fort Portal and Soroti, may be				
	pre	esented with an	award at th	e next performance review meeting.				
Way Forward/	• Th	e assessment	sheet is a	part of the updated WS Operation				
Challenges	Ma	anual under A	ctivity 4-1.	This mechanism helps to share				
	inf	ormation on pe	erformance	and related issues, as requested in				
		tivity 4-6.						
		•	haa mainta	ined the bighest sears is all post				
				ined the highest score in all past				
	as	sessments,	and can I	be called a "Center of Excellent				
	Wo	orkshop".						

	[Scoring Criteria: 3: Good, 2: Fair, 1: Poor/low, 0: Not Performed]														
No	PERFORMANCE INDICATORS	Central	Mbale	Soroti	Lira	Gulu	Arua	Hoima	Fort Portal	Kabale	Mubende	Moroto	Jinja	Masaka	Average score
1	Available WS staff for ME maintenance	3	2	3	3	3	3	3	3	3	3	3	3	1.5	2.8
2	Timely release of WS budget to WS team and allocative efficiency	2	2	2.5	3	3	2.5	3	3	3	2.5	1	1	2	2.3
3	ME inventory properly updated and data entered in NOMAD <u>*double score</u> (full mark: 6)	6	6	6	5	3	3	4	5	4	4	4	4	4	4.5
4	Job cards properly prepared and used	2.5	3	3	2.5	2	3	3	3	3	2	2.5	3	3	2.7
5	Productivity: No. of job cards raised / No. staff involved per guarter >=50		3 <i>85.0</i>	3 <i>69.3</i>	2 42.8	2 39.8	1 24.3	1 22.8	2.5 48.9	3 <i>72.0</i>	2 42.3	1 22.0	2 38.0	2 47.3	2.0 45.3
6	Adequate spare parts purchased in timely manner	2	2.5	2	3	3	3	3	3	2	3	0	0.5	3	2.3
7	Planned Preventive Maintenance periodically carried out for Lab. equipment and other selected equip		2.5	3	2.5	2	2.5	3	3	2.5	2	3	1	3	2.5
8	Routine maintenance carried out at least once a quarter for all hospitals and HCIVs		3	2.5	3	2.5	3	3	3	3	3	2	2	2	2.7
9	9 User training planned for and conducted using WS budget		2.5	3	3	3	3	3	3	2	2.5	2	3	1	2.6
10	Availability of integrated Workplan and budget developed by WS staff and RRH management	3	3	3	3	2	1	3	3	2.5	2	3	3	3	2.7
11	Timely submission and quality of Quarterly WS progress Reports	2.5	3	3	3	3	2	2	3	2	2	1	1	2	2.3
12	Teamwork/ Team building	2.5	3	3	2	3	2	2	3	3	2	3	3	2	2.6
13	13 Continuous implementation of CQI activities in the WS		2	2	0	3	0	2	3	1.5	1	2	1.5	2.5	1.7
	TOTAL (Full-mark:42) 34.5			39.0	35	34.5	29	35	40.5	34.5	31	27.5	28	31	33.6
	TOTAL % (score/42 x 100)	82%	89%	93%	83%	82%	69%	83%	96%	82%	74%	65%	67%	74%	80.0%

Table 1: Results on the Annual Assessment for the WS Performance, Year 2019/20 [Scoring Criteria: 3: Good, 2: Fair, 1: Poor/low, 0: Not Performed]

(4) Medical Equipment Inventory Update and Analysis

Related to	Year-round activity				
activity 4-2					
Details	• The latest equipment inventory data for the RRHs was collected				
	and analyzed as shown in Table 2.				
Achievements	• The average percentage of equipment in condition "C+E" (in use				
	but needs repaired/out of order but repairable) was 10.1%,				
	achieving the target score of "15% or less".				
	• In addition, conditions "A" (in good and in use) and "B" (good but				
	not in use) have also achieved their respective target goals.				
Way Forward/	• Although the overall average percentage for "C+E" achieved the				
Challenges	target score of 15% or less, individually, four of the 14 RRHs have				
	not yet achieved the target score. At 3 of the WSs (Hoima, Jinja				
	and Mbale) where the percentage of condition "C" is particularly				
	high, the repair of commonly used equipment, including medical				
	furniture, will be prioritized. At the other WS (Mbarara), where the				
	percentage of condition "E" is high, over- supplied equipment will				
	be relocated to other departments, and old, worn-out equipment				

will be disposed of.	
 Inventory management 	evidence-based pla

 Inventory management, evidence-based planning and budgeting using inventory data still needs to be improved.

No	Name of	Equipment Condition (%)						τοται	C+E
INO	RRH	A (>70%)	B (<4%)	С	D	E	F	TOTAL	(<15%)
1	Arua	92.5%	0.3%	2.3%	0.9%	2.2%	1.7%	100%	4.5%
2	Gulu	91.1%	1.3%	3.5%	0.6%	2.5%	0.9%	100%	6.1%
3	Lira	85.3%	5.5%	2.2%	1.8%	3.0%	2.1%	100%	5.2%
4	Soroti	83.2%	1.7%	7.1%	2.7%	2.0%	3.5%	100%	9.0%
5	Moroto	82.1%	3.1%	3.4%	1.4%	8.2%	1.9%	100%	11.6%
6	Hoima	70.0%	4.0%	13.7%	3.4%	3.4%	5.5%	100%	17.1%
7	Fort Portal	93.6%	0.7%	4.7%	0.2%	0.5%	0.2%	100%	5.2%
8	Kabale	89.6%	3.9%	1.2%	1.2%	1.7%	2.4%	100%	2.9%
9	Mubende	89.5%	1.1%	2.9%	0.8%	2.0%	3.7%	100%	4.8%
10	Masaka	88.1%	0.7%	10.0%	0.4%	0.7%	0.2%	100%	10.6%
11	Jinja	72.0%	0.4%	14.2%	6.7%	4.5%	2.2%	100%	18.7%
12	Naguru	87.5%	4.6%	5.2%	0.4%	1.8%	0.6%	100%	7.0%
13	Mbale	72.5%	1.7%	14.2%	5.5%	3.5%	2.7%	100%	17.7%
14	Mbarara	76.1%	2.7%	4.4%	0.3%	12.7%	3.9%	100%	17.1%
	Average	83.5%	2.1%	6.9%	2.1%	3.3%	2.2%	100%	10.1%
Mid	(Apr 2019)	76.2%	3.5%	11.5%	2.6%	4.1%	2.2%	100%	15.6%
-	eline (2016)	65.1%	5.1%	17.9%	3.5%	4.2%	4.3%	100%	22.1%

A: In good and in useC: In use but needs repairedE: Out of order but repairableB: Good but not in useD: In use but needs replacementF: Out of order and should be replaced

(5) Update and develop WS operation manuals, guidelines and monitoring tools (4-1)

Related to	Planned in May - December 2018
activity 4-1	
Details	• Revision of the WS Operation Manual published in December
	2013 (1st edition).
	• Development of new SOPs for 29 types of medical equipment for
	planned preventive maintenance.
Achievements	• The WS Operation Manual has been updated and revised.
	29 equipment SOPs that are part of the WS Operation Manual were
	developed and are in the process of being finalized.
Way Forward/	• Two activities the final approval by MOH stakeholders and the
Challenges	printing of these documents were scheduled to be completed by
	the end of April 2020 but have been postponed.

• The approval process and printing will be rescheduled by the MOH
counterparts after restrictions related to COVID-19 are lifted in
Uganda.

1-3 Achievement of Output

1-3-1 Summary of Achievements

Output 1: Steering Committee meetings have not been held as per the expected frequency. However, a face-to-face meeting between the Project Manager and Project Leader allowed for the necessary information-sharing regarding the progress and effectiveness of the Project.

Due to the global outbreak of COVID-19 from February 2020, the activity period of Japanese experts was shortened and the expected activities have not been implemented. Moreover, urgent budget execution for COVID-19 measures reduced the budget for the MOH's regular Project; in February and March, the MOH was only able to cover 2% of the activity expenses. In contrast, the MOH contributed almost half of the activity cost for FY2019/2020. The Project Implementation Team leaders regularly share information with Senior Management Committee on the effectiveness of their activities and strive to deepen their understanding within the MOH.

Output 1						
Supporting/supervising system for health infrastructure management of all the RRHs is						
strengthened in the MOH.						
Current Indicators	Achievements					
1-1						
The Project Steering Committee meeting	The Steering Committee meetings were					
is conducted every three months.	conducted approximately every three months.					
	Detailed dates are as follows:					
	1) 29th May 2018					
	2) 17th September 2018					
	3) 27th November 2018					
	4) 2nd February 2019					
	5) 22nd July 2019					
	The 6th Steering Committee was not held in					
	February 2020 due to the outbreak of COVID-					
	19.					

1-2			
The results of integrated support	The activities have been conducted according		
supervision conducted by Project	to the schedule that was approved at the		
Implementation Teams, and the next	Steering Committee meeting held on 22nd		
quarter action plan developed from these	July 2019. The results of all activities and the		
results, are shared and approved at every	way forward has been shared with all		
Project Steering Committee meeting.	participants of the 4th JCC meeting.		
1-3			
The roadmap for incorporating the Project	The budget for FY2019/2020 was executed.		
activities into the policy and systems of	Approximately 50% of the activity budget was		
MOH is established and implemented by	borne by the Ugandan side. However, the		
the Project Steering Committee.	activity budget for each department is not		
	enough.		
1-4			
The Project activities are successfully	The activity plans of the Project were		
incorporated into the Ministerial Policy	incorporated into the Ministerial Policy		
Statement of Ministry of Health.	Statements, and annual activity and budget		
	plans were determined.		

Output 2: Scores of 5S performance (calculated using the 5S M&E sheet in the 5S-CQI(KAIZEN)-TQM Guidelines) surpassed the target of Output 2 (60% for two consecutive years) at nine out of 16 target hospitals. According to the results of the 4th M&E in January and February 2020, 15 out of 16 hospitals scored over 60% as an average of their top five departments and QIT.

The results also showed that 5S has been actively implemented at all target hospitals. The number of units scoring at least 60% for 5S performance increased tremendously, and all target hospitals had at least one unit that scored beyond the target. At Entebbe and Kabale, all units that were evaluated scored 70% or more. More than 10 units surpassed 60% at Jinja, Mbarara and Naguru.

It is inferred that maintaining a steady performance of 5S at the ground level critically depends on the steady performance of the top management and QIT. For example, scores for "top management/QIT" have been above 80% at Kabale since the 2ndM&E and at Entebbe since the 3rd M&E. The top five areas of 5S performance in these two hospitals also scored higher than 80%. Meanwhile, the performance score for "top management/QIT" dropped at Arua from the 3rd M&E and worsened the score of 5S. As mentioned in Section 1-4: Achievement of the Project Purpose, Kabale and Entebbe are steadily implementing the CQI (KAIZEN) process. Kabale completed a cycle of Total Quality Management (TQM) in all departments on the theme of functionalization and usage of medical equipment. It also took a further step in quality improvement of services through pursuing patient safety. Meanwhile, Naguru commenced CQI (KAIZEN) activities, and the results of the 4th M&E showed that two hospitals (Jinja and Mbarara) are ready to move forward to CQI (KAIZEN).

[Project Implementation Team: 5S-CQI-TQM]			
Resource management and quality improvement activities are strengthened through CQI			
approach in all RRHs.			
Current Indicators	Achievements		
2-1			
Score of Module 1 (Leadership) and 6	The MOH collected data from 10 target hospitals.		
(Health Infrastructure) Health Facility	The scores will be shared with the Japanese		
Quality of Care Assessment program expert soon after their analysis.			
(HFQAP) Facility Assessment Tool			
- All RRHs mark (i) 5 points out of 8 as			
full mark for module 1 and (ii) 6 points			
out of 10 as full mark for module 6.			
2-2			
Score of modified 5S M&E Sheet in 5S-	Nine out of 16 target hospitals reached the target		
CQI-TQM Guidelines	of 60%: Arua, Entebbe, Jinja, Kabale, Masaka,		
- All RRHs mark 33 points out of 54 as	Mbale, Mbarara, Mubende and Naguru. (See		
full mark at least two consecutive years. Figure 1)			

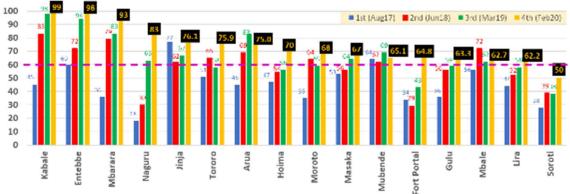


Figure 1: The results of 5S M&E by hospitals

Output 3:

- The number of regional User Trainers reached the indicator at all 15 hospitals.
- The number of UTs conducted by regional User Trainers reached the indicator at 14 out of 15 hospitals.
- The average percentage of equipment status "B" (2.05%) has been achieved, and 12 out of 14 hospitals improved more than the baseline of 5.1%.

During the supervision, Japanese experts and the MOH provided guidance on the medical equipment inventory data analysis. The status of medical equipment at the facility was obtained, and User Trainers provided UT to the hospital staff, based on an analysis of the medical equipment inventory. As a result of the UT, the utilization rate of the medical equipment has improved.

The management of the target hospitals now have a deeper understanding of UT activities, and the RWS is cooperative. In addition, financial support from other IPs is being obtained, and the environment for UT activities has improved, and sustainability of activities can be expected.

[Project Implementation Team: UT]						
Proper utilization of medical equipment t	hrough	UT is improv	ved in a	all RRHs.		
Current Indicators	Achievements					
3-1						
There are at least two regional User	The n	The number of User Trainers is shown below:				
Trainers at all RRHs.		Hospital N	ame	No. of User Trainers	S	
		Arua		2		
		Fort Portal		2		
		Gulu		2		
		Hoima		2		
		Jinja		2		
		Kabale		2		
		Lira		3		
		Masaka		2		
		Mbale		2		
		Mbarara		2		
		Moroto		2		
		Mubende		2		
		Naguru		2		
		Soroti		3		
		Entebbe		3		
		Total		33		
	*As of	f the end of <i>i</i>	April 20	020.		
3-2						
The number of UT conducted by	The n	umber of UT	rs is sh	nown below:		
regional User Trainers is more than		oital name	No.	Hospital name	No.	
three per year in every region.	Arua	Portal	4	Mbale Mbarara	5 2	
	Gulu		3	Moroto	3	
	Hoin	าล	3	Mubende	7	
	Jinja		4	Naguru	3	
	Kaba	ale	9	Soroti	10	
	Mas	aka	4	Entebbe	4	
			-	/ 2019 to April 2020	1	
3-3						
The average percentage of medical	al Baseline: 5.1%					
equipment in status B at all RRHs is not						
higher than 4%.						

Output 4: The activities, including training, support supervision, WS assessment, inventory analysis and manual revisions, were implemented as scheduled, with exception of the manual printing and the regular holding of the WS Performance Review Meeting.

In the training that focused on group work sessions, the participants were able to gain more practical knowledge and skills. In particular, the trained area of CQI(KAIZEN) and SOPs are highly effective and sustainable to be used in the workplace promptly.

At the support supervision for all WSs, two HID/MOH engineers and two senior technicians from Central WS were involved as supervisors. In addition to strengthening each WS, the supervision enhanced the coaching capacities of HID/MOH and Central WS personnel.

Based on the results of the past WS assessments, the average performance scores have increased gradually since 2016 (59% at Sep.-Oct. 2016, 71% at Aug-Sep. 2017, 74% at Feb.-Mar. 2019, 80% at Feb.-Mar. 2020). This is a comprehensive performance assessment tool for each WS that evaluates the WS situation in more than 10 areas (staffing level, budget release, equipment inventory update, productivity, spare part procurement, preventive maintenance, equipment user training, teamwork, 5S-CQI etc.). The 2020 score of 80% clearly indicates that the capacity of the WSs has been enhanced.

Regarding the current functional condition of medical equipment in RRHs, the average percentages for equipment condition "A" (83.5%) and "C+E" (10.1%) were beyond the expected goals (>70% and <15%, respectively). It can be said that the harmonization of all activities in Output 4 was relatively high.

According to these achievements, the Project activities corresponded with the improvement of WS maintenance and management capacities, which aligned with the goal of Output 4.

[Project Implementation Team: ME]				
ME and management capacity of W	/S are strengthened.			
Current Indicators	Achievement			
(1) The average increase of	29.4% (average score of the past nine training			
scores between the pre-test	sessions): The target was achieved.			
and post-test is at least 15%.				
(2) The average of percentage of	Base line: 22.1%			
medical equipment in status C	End line: 10.1% (Achieved)			
and status E at all RRHs is not				
higher than 15%.				

1-4 Achievement of the Project Purpose

The activities of each output greatly contributed to human resource development and work process improvement related to the health services provision in each target facility, even with budget constraints. As shown in the figure of the indicators, CQI(KAIZEN) cases were implemented according to procedure. The "small CQI" for daily work process improvement was practiced not only in the hospitals, but also in the WSs. In terms of health infrastructure management, the improvement of equipment inventory records came as a result of the close cooperation between the WS and User Trainers. In addition, since it is difficult for the Project Implementation Team to conduct support supervision for all of the activities that are integrated in 5S, UT and ME together, each department in charge of these activities conducted support supervision for developing CQI cases respectively, under the same concept. It can be inferred that this contributed to the achievement of the Project purpose, and the sustainability of health infrastructure management under the MOH at the target facilities will be achieved. However, the budget execution (from the MOFPED to the MOH) is not always on time. This hinders timely budget execution in each department of the MOH. The delayed provision of funds is one of the challenges in conducting the activities scheduled under each output. To cope with this situation, each Project Implementation Team is required to share the work plan and conduct some activities together.

Current Indicators	Achievements
(1) CQI Process or Quality Control	Nineteen cases of CQI Process are being implemented
(QC) Story	at Kabale RRH, and six were completed. Three cases
-The number of cases of CQI	of CQI Process are being carried out at Entebbe RRH.
Process or QC Story amounts	
to more than three.	
(2) Good practice of small CQI	At least one case of small CQI was practiced at 12 out
-All RRHs have at least one	of 16 target hospitals: Entebbe RRH, Gulu RRH, Jinja
good practice of small CQI.	RRH, Kabale RRH, Masaka RRH, Mbale RRH,
	Mbarara RRH, Moroto RRH, Mubende RRH, Naguru
	RRH, Soroti RRH and Tororo GH.
(3) The average of percentage of	Baseline: 65.1%
medical equipment in status A	End line: 83.5%
at all RRHs is higher than 70%.	
(4) Supervisions on 5S, UT, and	Integrated supervision of three components of health

ME which is integrated into the			infrastructure management was conducted 10 times, in
system of	MOH	in a	a November 2018 (1), February 2019, March 2019 (2),
consolidated	way	are	April 2019 (1), May 2019 (2), July 2019 (1), August
implemented	more th	nan XX	2019 (1), October (1) and November 2019 (1).
times.			

1-5 Changes of Risks and Actions for Mitigation

Due to the COVID-19 pandemic, all Japanese experts were urgently required to return to Japan, and the activities that were underway were suspended. These activities include the implementation of supervision and the completion of policy documents, such as guidelines and activity tools. The activities will be implemented once COVID-19 infection rates have been sufficiently reduced.

1-6 Progress of Actions Undertaken by JICA

Due to the COVID-19 pandemic, the project extension process within the Ministry of Health has been delayed. JICA Uganda office facilitated the progress of the procedure by presenting the necessary documents and other information to the Ministry of Health.

1-7 Progress of Actions Undertaken by the Government of Uganda

(1) The MOH's budget execution has not been stable. The expenses covered by the MOH and Japan for the activities for January to March 2020 are shown below. The MOH covered 2% (1,500,000UGX) of all activities, as the budget for regular activities of the MOH was reduced during this period due to urgent budget execution for COVID-19 measures. However, the MOH contributed about 50% of the activity cost throughout the year.

	МОН			МОН		Japan side			
Date	Dept.	Activities	Venue	Allowance /Others		Allowance /Others		Total	
	Feb	HID	Leadership/Management Tr	Hoima			27,054,000	100%	27,054,000
	Feb	HID	ME-Supervision		1,500,000	34%	2,900,000	66%	4,400,000
2020	Feb	CS	UT-Supervision				337,000	100%	337,000
	Mar	CS	UT-Supervision				2,215,500	100%	2,215,500
	Jan-Feb	SCAP	4th 5S M&E				29,153,000	100%	29,153,000
					1,500,000	2%	61,659,500	98%	63,159,500

- (2) In the previous Monitoring Sheet (ver. 7), some information was shared on problems with non-functional equipment that could not be solved through the Project activities. Under these circumstances, the HID/MOH and the Project requested that the WSs and top management of RRHs take the following actions:
 - Relocation of over-supplied equipment through implementing TQM, focusing on

"improvement of medical equipment management" at Kabale RRH

- Promotion of a framework contract system for the timely procurement of spare parts
- Disposal of obsolete equipment, led by the RRHs' top management
- Proper use of analyzed inventory data for maintenance, planning and budgeting

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

1-9 Progress of Considerations on Gender/Peace Building/Poverty Reduction (if applicable) None.

1-10 Other Remarkable/Considerable Issues Related to/Affecting the Project (such as other JICA Projects, Activities of Counterparts, Other Donors, Private Sectors, NGOs, etc.)

- (1) The project for the Improvement of Regional Referral Hospitals in Northern Uganda is a grant aid project run by the Japanese government. This project aims to strengthen hospital functionality by constructing facilities and providing medical equipment to hospitals (Arua, Gulu and Lira RRH) in northern Uganda, and to improve the quality of and access to health services. JICA signed a grant agreement with the Government of Uganda to provide grant aid of up to 2.86 billion yen for this project on 26th April 2018. The target facilities of the grant aid project include the RRHs. The project is expected to create a positive influence on health service delivery in the hospitals and motivate hospital staff to improve their workplace environment. Construction work on these three hospitals started in June 2019.
- (2) Regional Health Integration to Enhance Services (RHITES) is a 5-year project that has been operating since 2017, funded by the United States Agency for International Development (USAID). RHITES supports the Government of Uganda and key stakeholders to increase the availability and utilization of high-quality health services. The purpose of this project is to secure services to support the design and implementation of comprehensive, integrated investment in health, especially at the regional level, for HIV/AIDS and nutrition assistance in the entirety of Uganda. In terms of Quality Improvement, the achievement of outcomes in the project target facilities will be accelerated through human resource development done by RHITES.
- (3) The Korea Foundation for International Healthcare (KOFIH) is a public affiliated organization of the MOH and Welfare of the Republic of Korea. KOFIH has been active in Uganda since 2017, implementing various projects, including establishing an emergency medical service system and community health system with the MOH. KOFIH targets the Bukomansinbi district and Masaka region. In the target area of KOFIH, the equipment and technology provided will contribute to improving the skills of the staff members in the projects' target facilities.

2 Delays of Work Schedule and/or Problems

2-1 Details of the causes

- (1) The following activities have been postponed due to the COVID-19 crisis:
 - Approval and printing of User Training guidelines by SMC and TMC
 - Printing of User Training manuals
 - Part of Support Supervision
 - Approval by MOH stakeholders and printing of the updated WS Operation Manual
 - Regular holding of the WS Performance Review Meeting

Under the direction of experts in Japan, counterparts and Project national staff in Uganda will implement the activities that have been delayed as much as possible.

(2) Delay of assessment of target facilities by Health Facilities Quality Assessment Program (HFQAP)

The MOH conducted a HFQAP assessment for 1,989 health facilities in 74 out of 127 districts (58.3%), including 10 hospitals out of 16 target facilities.

3 Modification of Project Implementation Plan

As a result of the Terminal Evaluation, the MOH decided to request a one-year extension of the Project period. The MOH first applies to the MOFPED for permission to extend the project period. After the approval by the MOFPED, the original R/D will be revised.

II. Project Monitoring Sheet I & II

Attachments:

- I. Project Monitoring Sheet I
- II. Project Monitoring Sheet II

End

Project Monitoring Sheet I

Project Title:	Project on Improvement of Health Service through Health Infrastructure Management (II)
Implementing agency:	Standards, Compliance, Accreditation and Patient Protection Department, Directorate of Health Governance and Regulation, Ministry of Health (MOH) (5S-CQI-TQM)
	Clinical Services Department, Directorate of Curative Services, MOH (Utilization of Medical Equipment)
	Health Infrastructure Department, Directorate of Strategy, Policy and Development, MOH (Maintenance of Medical Equipment)
Target Group:	(1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe General Hospital (GH), Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, M
	(2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital
Period of Project:	July 2016- July 2020
Target Site:	Republic of Uganda

Narrative Summary	Objectively Verifiable Indicators	Achi
Quality of health care services at all the RRHs in Uganda is improved.	 Clients' satisfaction level is improved to the target level. (XX) Clients' waiting time of patients for consultation, testing, clinical examination, and prescription of drugs are reduced XX% Maintenance cost regarding medical equipment is decreased in XX%. 	
Project Purpose		
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH.	 (1) CQI Process or QC Story The number of cases of CQI Process or QC Story amounts to more than three. (2) Good practice of small CQI All RRHs have at least one good practice of small CQI. (3) The average of percentage of medical equipment in status A at all RRHs is higher than 70%. (4) Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times. 	 (1) 19 cases of CC implemented and 6 Kabale RRH. 3 cas being carried out at (2) At least one cas practiced at 12 out (3) 74.8% (average RRHs) (4) Joint supervision concerning health management was a second se
Output 1		I
1. [Project Steering Committee] Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH.	 (1) The Project Steering committee meeting is conducted every three months. (2) The results of integrated support supervision conducted by Project Implementation Teams and the next quarter action plan developed from these results are shared and approved at every Project Steering Committee meeting. (3) The roadmap for incorporating the Project activities into the policy and systems of MOH is established and implemented by the Project Steering Committee. (4) The Project activities are successfully incorporated into the Ministerial Policy Statement of Ministry of Health. 	 (1) The Steering C were conducted 4 to February 2019. (2) The activities h according to the so at the Steering Con on 22nd July 2019 active ties and way with all participants meeting. (3) The budget for executed. Approxin activity budget becon Ugandan side. How budget for each de enough. (4) The activity pla incorporated into the Statements, and a budget plans were

Version. 8 Dated 25th June 2020

, Moroto RRH, Mukuju HC IV, Tororo GH

hievement	Remarks
CQI Process are being	
d 6 were completed at	
ases of CQI Process are	
at Entebbe RRH.	
case of small CQI was ut of 16 target hospitals.	
ge of 11 RRHs out of 14	
-	
sion of 3 components	
h infrastructure s conducted 6 times.	
s conducted o times.	
Committee meetings	
4 times during May 2019	
have conducted	
schedule that approved	
committee meeting held	
9. The result of all	
ay forward has shared nts of the 4th JCC	
or FY2019/2020 was	
ximately 50% of the	
ecame borne by the	
lowever, the activity department is not	
uepartinent is not	
lans of the Project were	
the Ministerial Policy	
annual activity and re determined.	

Output 2		
2.[Project Implementation Team: 5S-CQI-TQM] Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.	 (1)Score of module 1 (Leadership) and 6 (Health Infrastructure) HFQAP Facility Assessment Tool All RRHs mark (i) 5 points out of 8 as full mark for module 1 and (ii) 6 points out of 10 as full mark for module 6. (2)Score of modified 5S M&E Sheet in 5S-CQI-TQM Guidelines All RRHs mark 33 points out of 54 as full mark at least two consecutive years. 	(1) MOH collected hospitals, and the s the Japanese side (2) 4th M&E of 5S out of 16 target hos target of Output 2 (consecutive years) Kabale, Masaka, M Mubende and Nagu 15 out 16 target ho than 60% at the 4th
Output 3		•
3.[Project Implementation Team: User Training] Proper utilization of medical equipment through UT is improved in all RRHs.	 (1) There are at least two regional user trainers at all RRHs. (2) The number of UT conducted by regional User Trainers is more than three as per year in every region. (3) The average of percentage of medical equipment in status B at all RRHs is not higher than 4%. 	(1) There were 33 at 15 RRHs. (2) 4.6 times (avera at 15RRHs). (3) 2.05% (average
Output 4		•
4.[Project Implementation Team: ME maintenance] ME maintenance and management capacity of workshops (WS) are strengthened.	 (1) The average increase of scores between the pretest and post-test is at least 15%. (2) The average of percentage of medical equipment in status C and status E at all RRHs is not higher than 15%. 	(1) 29.4% (average (2) 10.1% (14 RRH 2020)

ed data from 10 target e score will be given to de soon. S performance showed 9 nospitals surpassed the 2 (60% at least two rs): Arua, Entebbe, Jinja, Mbale, Mbarara, aguru. hospitals scored more 4th M&E.	
3 regional User Trainers	
erage number of training	
ge of 14 RRHs).	
ge of 9 past trainings) RHs, as of February	

Activities	Input
1-1 Establishment of foundation for the Project and implementation	The Japanese side
1-1-1 Establish Project Steering Committee	1. Dispatch of Experts 1) Chief advisor / QI Management System
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	2) 5S-CQI-TQM
1-1-3 Develop Terms of Reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project	 3) Utilization of Medical Equipment 4) Maintenance of Medical Equipment 5) Project Coordinator/ Training Management
1-1-4 Conduct baseline survey	2. Machinery and equipment
1-2 Support Supervision on health infrastructure management	1) Necessary supplies for 5S-CQI-TQM to target hospitals and
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels	MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities
1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME	- · · · · · · · · · · · · · · · · · · ·
1-3 Project implementation, monitoring and evaluation and institutionalization	
1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle	
1-3-2 Conduct a meeting to review the established system in MOH	
1-3-3 Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections to the Ministerial Policy Statement	
1-3-4 Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure management compiling 5S, UT and ME	
1-3-5 Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME	1
2.[Project Implementation Team: 5S-CQI-TQM]	
2-1 Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	
2-2 Define criteria for national show case of 5S-CQI-TQM and review national show case(s)	
2-3 Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels	
2-4 Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.	
2-5 Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	
2-6 Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	
2-7 Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI	
2-8 Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and ME in collaboration with UT and ME activities under the direction of Project Steering Committee Activity 1-2-2	

3.[Project Implementation Team: User Training]
3-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary
3-2 Conduct refresher training of user trainers in the previous Project phase.
3-3 Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals
3-4 Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI- TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2
4.[Project Implementation Team: Maintenance]
4-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary
4-2 Conduct leadership and management training for workshop managers including inventory data analysis
4-3 Conduct training for workshop staffs on maintenance of basic medical equipment
4-4 Conduct training for core staff of workshops in first line maintenance of specialized medical equipment
4-5 Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops
4-6 Support Workshops to develop a system for sharing knowledge and skills

Attachment I

Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

Project Title: Project on Improvement of puts				Plan			2016				2	017				2018				2	2019				2020					Moni	toring
				Actual			111	\	V				IV					IV				IV					IV	Re	marks	Issue	Solution
pert											_															: 1				13340	Colution
hief Advisor/QI Management System				Plan Actual																										None.	None.
ssist Chief Advisor/QI Management System				Plan Actual																										None.	None.
S-CQI-TQM ①				Plan Actual																										None.	None.
S-CQI-TQM (2)				Plan Actual																										None.	None.
tilization of Medical Equipment				Plan Actual																										None.	None.
l				Plan Actual																										None.	None.
roject Coordinator/Training Management				Plan Actual																										None.	None.
Jipment																															
roject vehicles and equipment/materials necessary for the Project dministration				Plan Actual																										None.	None.
ning in Japan																															
				Plan Actual																										None.	None.
ountry/Third country Training									-																						
anzania KAIZEN TOT				Plan Actual																										None.	None.
tivities				Plan		1	2016	1 :	-		2	017	1 : :		1 :	2018	- i I			2	2019	1 : :		1 :	2020	- i I		Posponsibl	e Organization		
Sub-Activities				Actual	I		111	\	V		11		IV					IV	I			IV					IV	Responsible	e Organization	Achievements	Issue
ut 1 [Project Steering Committee] Supporting/supervising	g systei	m for I	health ir	nfrastruc	ure mar	nageme	ent of all	the RR	Hs is s	strengt	hened i	n the M	ОН															Japan	Uganda		Counterme
1 Establishment of foundation for the Project and implementation																															•
1-1-1 Establish Project Steering Committee	000	0	0	Plan																								Expert(s)	All concerned Department	Project Steering Committee was established.	None.
				Actual																									members of MOH	Desired lands are a fation	Nerre
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	000	00	00	Plan																								Expert(s)	All concerned Department	Project Implementation Teams were established.	None.
				Actual																									members of MOH	Work Plan was approved by	/ None.
Develop terms of reference (TOR) for Project Steering 1-1-3 Committee and Project Implementation Teams and action	000	0	0	Plan																								Expert(s)	Steering Committee	Project Steering Committee.	
plans for implementation of the Project				Actual							_										-									Situation analysis for all the	None
1-1-4 Conduct baseline survey	000	0	0	Plan Actual																								Expert(s)	Implementation Team	target hospitals and workshops was conducted.	
2 Support Supervision on health infrastructure management	++			Actual																										workshops was conducted.	
														1 : :																Progress of all activities	The Project team
Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility	000	00	0	Plan																									Steering	were shared in the 4th JCC. 10 target facilities were	
1-2-1 Unough emicriment of checkins of HPGAP(health Facility Quality of Care Assessment Program) and allocation of 5S- CQI-TQM facilitators at national and regional levels																												Expert(s)	Committee	assessed by checklist of HFQAP.	hospitals assess outstanding under
				Actual																											HFQAP.
																														Integrated supervision of 3 components of health	None.
	000	00		Plan																										infrastructure management was conducted 10 times, in	
																														November 2018 (1),	
							_																							February 2019, March 2019	
Direct integrated support supervision, mentoring and coaching 1-2-2 on health infrastructure management as CQI practice																												Expert(s)	Steering	(2), April 2019 (1), May 2019 (2), July 2019 (1),	
integrating 5S, user training and maintenance																												, /	Committee	August 2019 (1), October (1) and November 2019 (1)	
				Actual																										. CQI practices in RRH as	
																														well as RWS were implemented.	
I I I I I I I I I I I I I I I I I I I												1 1 1								1 2 2							4 1				

Attachment II

Versi	on. 8		
Date	d 25th	June	2020

	ies Sub-Activities	_			Plan Actual	I		2016		IV I	1	2	017	IV	+	1	201 II	18 III	IV		2019 I		IV		: 	2020	II I	v	Responsibl	le Organization	Achiovenente	Issue &
utput 1 [l	Project Steering Committee] Supporting/supervisi	ing sy	stem fo	r health i		ure man	nageme			-	streng									 				-				-	Japan	Uganda	Achievements	Countermeasures
1-3 Projec	ct implementation, monitoring and evaluation and institutionalizat	tic									_		_					_	_	 			_									
1-3-1	Organize meetings of Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle			000	Plan Actual																								Expert(s)	Steering Committee	Project Steering Committee meeting was conducted in July 2019.	None.
1-3-2	Conduct a meeting to review the established system in MOH	00			Plan																								Expert(s)	Steering	Project Steering Committee meeting was conducted in	None.
1-3-2					Actual																								Experi(s)	Committee	July 2019. Integrated supervision of 3	None.
	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed				Plan																									Steering	components of health infrastructure management was conducted 10 times, in November 2018 (1), February 2019, March 2019 (2), April 2019 (1), May 2019 (2), July 2019 (1),	
1-3-3	Support supervision systems and metrodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement				Actual																								Expert(s)	Committee	August 2019 (1), October (1) and November 2019 (1) MOH Officials participated in supervision and shared methodology of supervision.	
1-3-4	Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure management compiling 5S, UT and ME				Plan Actual																								Expert(s)	Implementation Team	No activity was planned.	None.
1-3-5	Conduct an end-line survey on health infrastructure management, including 5S-CQI-TQM, UT and ME			0	Plan																								Expert(s)	Implementation Team	The 4th 5S performance assessment was conducted. Medical equipment inventory	None.
					Actual																									Toum	assessment was also conducted.	
utput 2 [l	Project Implementation Team: 5S-CQI-TQM] Reso	urce	nanagei	ment and	quality in	nprovem	nent ac	tivities	are sti	rengthe	ened th	rough C	QI appr	oach in	all RRI	le												I	Japan	Uganda		
2-1								1 :	:				1 : :			: 1	: :			 	: 1 :	: 1			1 : :		: : :			Uganda	50 001 TOM Es silitate sel	News
	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	00		000	Plan Actual																								Expert(s)	Implementation Team	5S-CQI-TQM Facilitators' Guidebook were printed and distributed to the target hospitals	None.
2-2					Actual Plan																								-	Implementation	Guidebook were printed	
2-2	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and				Actual Plan Actual																								Expert(s)	Implementation Team Steering	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in	None.
2-2	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and				Actual Plan Actual Plan																								Expert(s)	Implementation Team Steering	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March. No activity was conducted since qualification, role and responsibility of the facilitators were clarified and described in the 5S-	None.
2-3	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the				Actual Plan Actual																								Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March. No activity was conducted since qualification, role and responsibility of the facilitators were clarified	None.
	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.				Actual Plan Actual Plan Actual Plan Plan Actual																								Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March. No activity was conducted since qualification, role and responsibility of the facilitators were clarified and described in the 5S- CQI-TQM Guidelines in 2019. No training was planned.	None. None. None.
2-3	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of				Actual Plan Actual Plan Actual Plan																								Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March. No activity was conducted since qualification, role and responsibility of the facilitators were clarified and described in the 5S- CQI-TQM Guidelines in 2019. No training was planned. Training in patient safety	None. None. None. Patient safety is new
2-3	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at				Actual Plan Actual Plan Actual Plan Actual Plan																								Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March. No activity was conducted since qualification, role and responsibility of the facilitators were clarified and described in the 5S- CQI-TQM Guidelines in 2019. No training was planned.	None. None. None. Patient safety is new approach, so it is nece to continue supervisior
2-3 2-4 2-5	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI Strengthen function of quality improvement team (QIT) and				Actual Plan Actual Plan Actual Plan Actual Plan Actual Plan																								Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March. No activity was conducted since qualification, role and responsibility of the facilitators were clarified and described in the 5S- CQI-TQM Guidelines in 2019. No training was planned. No training was planned. Training in patient safety was done at Kabale RRH under supervision. Support for functionalization of medical equipment as TQM	None. None. None. Patient safety is new approach, so it is neces to continue supervision
2-3 2-4 2-5 2-6	monitoring and supervision tools, and facilitators guide Define criteria for national show case of 5S-CQI-TQM and review national show case(s) Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc. Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities Conduct 5S-CQI-TQM training to target facilities based on the				Actual Plan Actual Plan Actual Plan Actual Plan Actual Plan Actual Plan																								Expert(s) Expert(s) Expert(s) Expert(s) Expert(s)	Implementation Team Steering Committee Steering Committee Implementation Team Implementation Team	Guidebook were printed and distributed to the target hospitals. Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March. No activity was conducted since qualification, role and responsibility of the facilitators were clarified and described in the 5S- CQI-TQM Guidelines in 2019. No training was planned. Training in patient safety was done at Kabale RRH under supervision. Support for functionalization of medical equipment as TQM was also continued.	None. None. None. Patient safety is new approach, so it is neces to continue supervision.

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		Sub-Activities						Actual		II		IV		I	II		IV	I			IV	I			IV					V
Out	put3 [Pı	roject Implementation Team: User Training] Prop	er util	lizati	ion o	of m	edica	al equipm	ent throug	h UT i	s impr	oved in a	all RRI	-																
			oc		0	0	0	Plan																						
	3-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	T	Т	Æ																									+
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			oc		0	5	0	Plan																						
	3-2	Conduct refresher training of user trainers in the previous Project phase	H		F	-		Actual																						+
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	3-3	Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals					0	Plan																						_
					Ц			Actual																						_
		Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM			1			Plan																						
	3-4	and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2	П	Π	ſΤ			Actual																						+
					Ц.																									
Out	put 4 [P	Project Implementation Team: ME maintenance] M	IE ma	inte	nano	ce ar	nd ma	anageme	nt capacity	ofwo	orksho	ps (WS)	are str	engthe	ened		1 : :	1::					1 : :			1 : :				
			ОC	0	0	00	0	Plan																						
	4-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary			Æ										-															+
					11			Actual																						
		Conduct leadership and management training for workshop			\square	0	0	Plan																						-
	4-2	managers including inventory data analysis	П	П	ſΤ	Т		Actual																						1
	4-3	Conduct training for workshop staff on maintenance of basic			(0 0	0	Plan																						+
	4-4	medical equipment Conduct training for core staff of workshops in first line			H	0	0	Actual Plan																						+
		maintenance of specialized medical equipment			H	+		Actual																						+
	4.5	Strengthen capacity of Central Workshop and Infrastructure	OC			0		Plan																						
	4-5	Department to support Regional Workshops			\square			Actual																						
			\square		\vdash	+																								_
								Plan																						
		Support Workshapp to develop a system for sharing			([
	4-6	Support Workshops to develop a system for sharing knowledge and skills	ET.	П	ſΤ	Т																								-
					11			Actual																						
Du	ratio	n / Phasing						Plan Actual							-															_
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J	loint Co	ordinating Committee			亡			Actual																						
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Responsib	le Organization		Issue &
Japan	Uganda	Achievements	Countermeasures
Expert(s)	Implementation Team	A draft of the UT manual has been created. The draft UT guidelines have passed the TWG review.	Both documents will be approved and printed after restrictions due to COVID19 are lifted.
Expert(s)	Implementation Team	Two additional user trainer candidates were tested. Both passed and were officially certified as a user trainer.	None.
Expert(s)	Implementation Team	No relevant activity	None.
Expert(s)	Implementation Team	Support supervision was conducted.	None.
Expert(s)	Implementation Team	The WS Operation Manual has been updated and revised. 29 equipment SOPs were developed, and they are still being finalized	Both documents will be approved and printed after restrictions due to COVID- 19 are lifted.
Expert(s)	Implementation Team	A training was held at Hoima in March 2020, and 30 engineers/technicians participated.	None.
Expert(s)	Implementation Team	None.	None.
Expert(s)	Implementation Team	None.	None.
Expert(s)	Implementation Team	Support supervision for all WSs were carried out. Regular holding of the WS Performance Review Meetings were interrupted.	WS Performance Review Meeting will be resumed after the COVID-19 crisis.
Expert(s)	Implementation Team, all WS managers	The WS Performance Review Meetings and routine support supervisions were institutionalized as the platform for sharing knowledge and skills.	None.
Re	emarks	Issue	Solution

To the CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 9 (Term: 1st May 2020 – 31st October 2020)

Name: Dr. Olaro CharlesTitle: Project DirectorName: Hiroshi TaseiTitle: Chief AdvisorSubmission Date: 25th December 2020

I. Summary

1 Progress and Achievements of the Project

1-1 Progress of Inputs

[The Japanese side]

1-1-1 Dispatch of JICA Experts (Initial plan→results)

News			20	20			Total
Name	5	6	7	8	9	10	(days)
Hiroshi Tasei Chief Advisor/QI Management System①							$60 \rightarrow 0$
Shizu Takahashi Vice Chief Advisor/QI Management System②							51→ 0
Naoki Take 5S-CQI-TQM①							61→ 0
Yujiro Handa 5S-CQI-TQM②							15→ 0
Naoki Mimuro Maintenance of Medical Equipment							45→ 0
Emi Onosaka Project Coordinator/Training Management							87→ 0

*The initial plan was to start local activities in July, but due to the COVID-19 pandemic all trips were cancelled, and activities were reallocated within Japan. However, supervisions at target facilities were carried out by Ministry of Health (MOH) officials.

1-1-2 Procurement of Testing and Calibration equipment as JICA Emergency Assistance to fight against COVID-19

The following activities were conducted.

- Summarized the HID/MOH requests for procurement of equipment aligned with the Project activities in consultation with the HID/MOH and JICA

- Compiled requests from HID/MOH for procurement of equipment and ensured that they were in line with project activities through consultation with HID/MOH and JICA.
- Collected information and data such as required equipment, quantities, target facilities, key specifications, reference brand & model of equipment, priorities of each equipment and local distributors.
- Requested the quotations of equipments to the local distributors for the purpose of budget planning.

[The Ugandan side]

1-1-1 Assignment of Counterparts

- (1) One MOH official (Principal Medical Officer, PMO) carried out support supervision for 5S in May 2020.
- (2) One MOH official (a Senior Nursing Officer, Nursing Department) carried out support supervision for User Trainers in May 2020.
- (3) Two MOH Officials (a Senior Engineer and a Biomedical Engineer, Health Infrastructure Department, MOH (HID/MOH)) carried out support supervision for Regional Workshops (RWSs) in July and August 2020.

1-2 Progress of Activities

1-2-1 Activities of Output 1

(1) Steering Committee Meeting

Related to	Planned in July 2020
Activities 1-3-1/1-3-	
2	
Details	 Date and Venue: 7th August 2020, Virtual meeting by Zoom
	• Participants: 6 from the MOH, 9 from the Project and 4 from JICA
	Objectives:
	(1) Sharing of COVID-19 situation in Uganda as of August 2020
	(2) To present the Plan of Operation for the extended period of the
	Project
	(3) To discuss the MOH's budget plan for the year 2020/2021
Achievements	• The project manager updated the cumulative number of infected
	persons as of 6th August 2020 as 1,223 confirmed cases, 5 deaths,
	1,264 recoveries.
	• All members shared information on the Project activities planned
	for the extension period. Programmed Instructions (PI) using
	Social Networking Services (SNS) communication and video

	lectures will be conducted on the following two issues:
	1) CQI(KAIZEN) for Medical Equipment Management
	2) Introduction of the Hospital Safety Report (Patient Safety)
	• All members understood that SNS communications and video
	distribution are aimed at knowledge cultivation. For these activities,
	JICA Experts, together with Ugandancounterparts, will hold a kick-
	off meeting to explain the implementation guidelines of PI to the
	target facilities.
	• The budget for the new fiscal year was being implemented, but the
	MOH explained that the budget related to the Project activities is
	lower than in previous years due to the fight against COVID-19 .
Way Forward/	Regarding the COVID-19 situation, among the challenges pointed
Challenges	out were few ICU beds with limited oxygen supplies, turnaround
	time for tested samples, and infection risk of the health workers as
	a result of hospitalized asymptomatic patients.
	• For PI, it is important for the participants to understand the
	messages from the JICA Experts and to implement the issues
	analyzed in the hospital.

(2) Programmed Instructions Kick-off Meeting

Related to Activity	Started in July 2020
1-3-2	
Details	 Date and Venue: 30th October 2020, Virtual meeting by Zoom
	• Participants: 2 from the MOH, 9 from the Project and 2 from JICA,
	as well as participants from Kabale, Fort Portal, Soroti, Hoima,
	Naguru and Entebbe Regional Referral Hospital (RRH)
	Objectives:
	(1) To present the Plan of Operation for the extended period of the
	Project
	(2) To explain PI in detail
Achievements	• The participants were divided into two groups, CQI(KAIZEN) for
	Medical Equipment (ME) Management and Patient Safety, in the
	form of a breakout session. The JICA Expert in charge of each
	group explained the implementation procedures.
	1) CQI(KAIZEN) ME Management
	-Target facilities: Fort Portal, Soroti, Hoima RRH (total of 30

Challenges	is difficult for the management and staff to understand its purpose right away. Therefore, it is necessary to gradually provide
Way Forward/	• Because this is the first time PI is being done in these hospitals, it
	video streaming
	-Modules and Modes: Weekly dialogues through SNS and weekly
	-Period of PI: 20th October to 17th December 2020
	members; 10 members from each hospital)
	-Target facilities: Kabale, Naguru and Entebbe RRH (total of 30
	2) Patient Safety
	lectures and exercises to promote understanding of KAIZEN.
	-Modules and Modes: Weekly dialogues through SNS, weekly video
	-Period of PI: 20th October to 17th December 2020
	members; 10 members from each hospital and the RWs)

1-2-2 Activities of Output 2

(1) Development of Teaching Materials on CQI(KAIZEN)

Related to	Planned from May-December, 2018
Activity 2-1	
Details	• This activity was not planned in the beginning. However, in order to
	efficiently cascade knowledge on CQI(KAIZEN) in the RRHs and
	other lower health facilities in Uganda, teaching materials (a picture-
	story) were developed in August 2020. The concept of the teaching
	materials was "easy to understand".
Achievements	• A draft of the front page (illustration) was completed and proofread.
	The content consisted of: 1) the CQI(KAIZEN) Handbook and case
	1, 2) Case 2: Catheter failures at a Pediatric Ward, 3) Case 3:
	Ultrasound machines at a regional workshop and 4) Appendix:
	Introduction of charts and columns.
Way Forward/	• The draft on the back page (explanation) will be completed and
Challenges	proofread by December 2020. The picture-story will be printed and
	completed by February 2021.
	• The material will be printed out and shared with the national 5S-CQI-
	TQM facilitators and others.

Related to	Started in June 2018
Activities 2-6/2-8	
Details	 Support supervisions for 3 RRHs were carried out according to the following schedule: Arua, 25th May; Gulu, 27th May; and Lira, 29th May. These hospitals were selected because of concern over the performance of the Quality Improvement Team (QIT) as a result of 4th M&E. f The supervisions were conducted by one Principal Medical Officer (PMO) of Standards, Compliance, Accreditation and Patient Protection Department (SCAPP-D), MOH member.
Achievements	 Following are the findings from the supervision: All 3 hospitals could perform sort, set and shine well. QIT at Arua: Meetings were held regularly but its action plan and minutes were not updated. Also, the QIT was not sufficiently supported by the top management. QIT and WIT at Gulu: An action plan was formulated for the first time, but meetings were not held regularly, and minutes and internal supervision records were rarely kept. QIT did not sufficiently communicate with WIT, although some members were more active. QIT and WIT at Lira: QIT was active, activities were in line with formulated action plan and the top management was supportive. However, records like minutes and supervision records were not properly kept. WIT was not active at most units/departments.
Way Forward/	• The challenge is that the QIT does not realize its leadership (e.g. QIT
Challenges	cannot formulate, implement and monitor its action plan for quality improvement) partly because of the insufficient support from the top management.

(2) Supervision of 5S-CQI-TQM

(3) Technical Support of Patient Safety at Kabale RRH

Related to	Started in February 2020
Activities 2-6/2-8	
Details	• At Kabale RRH, the follow-up on the incident report system (called
	the "Hospital Safety Report" (HSR)) was done through WhatsApp

	and email.
	The number of incident reports and actions to take were followed up
	on, and comments were made by JICA Experts.
Achievements	 227 incident reports were submitted between February, when the JICA Experts introduced the hospital safety report system, and the end of September. The largest number of reports was submitted by the Isolation unit, followed in order by Maternity, Pediatric and Casualty. The content of the reports included infection prevention control (especially the lack of Personal Protective Equipment), needle pricks and other environmental issues. Although the HSRs were properly filled out, because of the limitations on communication through WhatsApp, it was unclear what countermeasures or actions were taken by the QIT.
Way Farward/	• The OIT will formed at a datailed eation plan for introducing the UCD
Way Forward/	• The QIT will formulate a detailed action plan for introducing the HSR,
Challenges	including training within the hospital to promote the use of HSR in
	other units.
	• Continuous technical support, such as supervision by the local
	consultant, will be needed to ensure an effective HSR system.

(4) Programmed Instruction on Medical Equipment Management

Related to	Started in July 2020
Activity 2-7	
Details	 This PI was implemented to provide the opportunity for target hospitals to train in CQI(KAIZEN) for the management of ME, even under the circumstances of the COVID-19 pandemic. Following the completion of the PI, the participants will be able to (1) obtain knowledge of and skills for the 7 steps of CQI(KAIZEN) and (2) gain awareness on why CQI(KAIZEN) is needed for proper ME management. 3 RRHs were selected as targets: Fort Portal, Hoima and Soroti. Ten staff members from each hospital participated in the PI. Criteria of target hospitals are as follows: Regional workshop is affiliated with the hospital Workshop performs excellently with use of score by Health

		Department (HID) and	•	
	-Performance	of QIT improved fr	om last year	's M&E of 5S
	performance.			
	-Hospital is no	ot being trained in or st	arting CQI(KA	IZEN)
•	Period of the F	PI: 20th October-17th De	ecember 2020	
•	Instructors: M	r. Naoki Take and Mr. I	Naoki Mimuro	
•	The PI consis	ts of 2 approaches:		
	(1) A weekly c	dialogue with instructio	ns through Wh	natsApp, a SNS
	tool	-	-	• •
	[Schedule]			
	Date	Торіс		
	20/Oct/2020	What is KAIZEN?		
	27/Oct/2020	What is a "problem"?		
	3/Nov/2020	What is required for su	ccessful KAIZEN	٧?
	10/Nov/2020	What is a team?		
	17/Nov/2020	What is teamwork?		
	24/Nov/2020	What is leadership?		
	01/Dec/2020	ME management, Patie	ent Safety and s	ervice quality
	(2) Weekly vid CQI(KAIZEN)	deo lectures uploaded	to YouTube or	n the 7 steps of
	[Schedule]			
	Торіс		Date of	Due date of
			uploading	exercise
	KAIZEN introdu		22/Oct/2020	24/Oct/2020
	Step-1: Selection	on of KAIZEN theme	20/0-+/2020	31/Oct/2020
	Step-2: Situatio		29/Oct/2020	51/061/2020
	Step-2 (continu		05/Nov/2020	07/Nov/2020
	Step-3: Root ca	,	12/Nov/2020	14/Nov/2020
	Step-3 (continu		19/Nov/2020	21/Nov/2020
	Step-4: Identific	cation of	26/Nov/2020	28/Nov/2020
	countermeasur	es		
	Step-5: Implem		03/Nov/2020	05/Dec/2020
	countermeasur			
	-	ment of effectiveness	10/Dec/2020	12/Dec/2020
	of the countern Step-7: Standa		17/Dec/2020	19/Dec/2020
	effective measu		17/066/2020	13/060/2020
		-		I

	As this PI was conducted in the form of distant learning, and was the first experience for all JICA Experts involved, the preparation (e.g. developing a syllabus, considering the content of dialogues, and shooting the videos) took longer than expected.
Achievements	 Regarding the WhatsApp dialogues, 22 out of 30 participants completed questions in Topic 1: "What is KAIZEN?" (7 participants from Fort Portal, 9 from Hoima and 6 from Soroti) and 11 out of 30 completed Topic 2 "What is a "problem"?" (2 from Fort Portal, 4 from Hoima and 5 from Soroti) by the end of October 2020. In October 2020, 5 YouTube video lectures were uploaded for KAIZEN Step-1 and -2. Exercises were completed for Step-1 (Theme selection and identification of 3 pilot areas) at Hoima and Soroti, while Fort Portal will do this in early November.
Way Forward/ Challenges	 Continue to share the video lectures with learners Delay of response is anticipated due to severe daily workload, difficulty of internet connectivity, etc. Since the PI proceeds at the pace of each participant based on their circumstances, progress of learning mainly relies on their willingness to learn CQI(KAIZEN). The Project will remind the participants if their responses lag behind. However, the project expects their willingness to learn (or their lust for knowledge and skills) and will not force them to response.

(5) Programmed Instruction on Patient Safety

Related to	Started in July 2020
Activities 2-7	
Details	• The PI on Patient Safety aims to promote and raise learners'
	awareness of Patient Safety through step-by-step learning and
	mutual communication. Through this PI and further activities on
	Patient Safety, the Project expects 3 RRHs(Kabale, Entebbe and
	Naguru) that 1) incident report system is introduced and 2) 2 -3
	CQI(KAIZEN) process are implemented using incident report
	system.
	• The PI consists of 2 modes, SNS (WhatsApp) dialogues and

	YouTube video lectures. Since this PI was the first activity to be		
	conducted remotely, the preparation (shooting the videos, making		
	scenarios, considering the content of dialogues, and developing a		
	syllabus) took longer than what the JICA Experts expected. However,		
	this activity kicked off on 20th October 2020, and will end in		
	December. The detailed plan is shown below.		
	[Detailed Plan	[Detailed Plan]	
	1) Start Date: 20th October 2020		
	2) Learners: 31	learners from Kabale, Entebbe and Naguru hospitals	
	3) Facilitators:	Prof Yujiro Handa, Ms. Shizu Takahashi and Ms. Emi	
	Onosaka		
	4) WhatsApp d	ialogues:	
	Questions or	n the following topics will be sent. The learners are	
	expected to answer each question.		
	A tentative se	chedule and contents are shown as below.	
	20/Oct/2020	A team for Patient Safety	
	26/Oct/2020	Unsafe practices	
	1/Nov/2020	Regulations and rules	
	6/Nov/2020	Observing regulations and rules	
	12/Nov/2020	Incident report (Hospital Safety Report)	
	17/Nov/2020	Reporting unsafe practices	
	23/Nov/2020	Making good teams toward Patient Safety	
	27/Nov/2020	Medical records	
	3/Dec/2020	Medical record system	
	8/Dec/2020	5S and KAIZEN(CQI) activities in Patient Safety	
	14/Dec/2020	Challenges and goals of hospital departments	
	18/Dec/2020	Way forward to implement the incident report	
		system (Hospital Safety Report)	
	5) YouTube video lectures:		
	Approximately 30 videos related to each of the above-mentioned		
	content items will be uploaded to YouTube and shared through SNS		
	(WhatsApp), so that the learners can watch them at their		
	convenience.		
Achievements	• 13 YouTube v	ideo lectures were filmed and uploaded, and 8 lectures	
	were shared among the learners. For shared videos that got more		
	than 60 views, it was considered that all participants had watched the		

	Т	
	lecture at least once. Also, some participants made comments or	
	asked questions about the lectures on how to introduce the incident	
	report through WhatsApp.	
	• Learners were asked 2 questions regarding teams for Patient Safety	
	and unsafe practices, and both questions were answered by all	
	leaners. The dialogues took into consideration the fact that some	
	learners were already aware of the importance of Patient Safety,	
	while others were not. Even if they were aware of the importance of	
	patient safety, most of them had not taken action as the hospitals and	
	MOH had no clear guiding principles on patient safety (i.e, no forms,	
	no guidelines on the incident report system, and no guidelines on	
	protection from litigation).	
	•	
Way Forward/	Continue to share the video lectures with learners	
Challenges	• Follow-up on awareness will be done through the questions and	
	dialogues with JICA Experts.	
	• To take efficient action on Patient Safety, hospitals need supervision	
	and coaching by JICA Experts and local consultants. In addition,	
	policy development on Patient Safety should be considered by MOH.	

1-2-3 Activities of Output 3

(1) Senior Management Committee (SMC) meeting for approval of User Training (UT) Guidelines and Manuals

Related to	Planned from June 2018 - March 2019
Activity 3-1	
Details	 The Senior Management Committee (SMC) meeting was to be held in March, but it was postponed because the COVID-19 response was prioritized. Re-approval of the User Training (UT) Guidelines at the SMC meeting
Achievements	• SMC meeting was not held. UT Guidelines were not approved.
Way Forward/	• After holding the SMC and Top Management Committee(TMC)
Challenges	meeting, approval of UT Guidelines is an urgent task.

Related to	Planned from September 2018-May 2020		
Activity 3-4			
Details	 Support supervisions for 7 RRHs were carried out according to the following schedule: 18th May Arua RRH 19th May Gulu RRH 20th May Lira RRH 21st May Soroti RRH 22nd May Moroto RRH 25th May Mbale RRH 26th May Jinja RRH The main objectives of the supervision by MOH were as follows: 1) Confirm and provide guidance on the status of UT implementation and progress on the action plan. Provide advice on improving the utilization rate of medical equipment. Check the status of the collaboration between the User Trainers and the workshop (WS). Explain the proper use of equipment using the results of inventory data analysis 		
Achievements	 5) Introduce activity examples with other Implementing Partners (IPs). User Trainers continued to conduct UT at target hospitals and lower health facilities. As a result of UT, the utilization rate of medical equipment at all RRHs has improved. The rate of unused equipment in all target hospitals improved from 5 percent to 2 percent on average. Increased the frequency of communication and exchanging information between UT and WS staff on the availability of medical equipment. 		
Way Forward/ Challenges	 There is a lack of understanding of the equipment management system and how to use the medical equipment inventory. Expected activities include WS and UT coordination activities in the hospital's QIT activities, for example, joint rounds in the hospital for preventive maintenance. 		

(2) Support Supervision



1-2-4 Activities of Output 4

(1) Support Supervision for WSs

Related to	Twice a year (Ye	ear-round activity)	
Activities 4-5 and			
4-6			
Details	• Support supervisions for 15 WSs were carried out according to the		
	following schedule:		
	July-August 2020		
	6-11 July	Jinja, Mbale, Soroti, Moroto, Lira, Gulu, Arua	
	20-25 July	Masaka, Mbarara, Kabale, Fort Portal, Mubende, Hoima	
	4-6 August	Central, Naguru	
	All rounds of sup	pervisions were conducted by two engineers from the	
	HID/MOH, a senior technician from the Central WS and a JICA Project		
	local staff member.		
	 The agenda had five main areas: 		
	1) Review the FY2020/21 work plan and budget allocations.		
	2) Ascertain the status of inventory management with the NOMAD		
	database.		
	3) Continue with the preparation of the 3rd & 4th Quarter reports.		
	4) Provide guidance on the preparation of the Annual WS		
	Performance Report.		
	5) Provide ongoing CQI(KAIZEN) follow-up.		
Achievements	• Once the COVID-19 lockdown measures were relaxed, the		
	HID/MOH, Central WS and JICA team were able to supervise all		
	Regional WSs as planned.		
	 Compared to the previous supervision in February and March 2020, 		
	many of the	areas in 1) to 5) from the above agenda improved	
	and/or maintained a moderate status in 11 of the 15 WSs (Mbale,		

	Soroti, Moroto, Lira, G	ulu, Masaka, Kabale, Fort Portal, Hoima,
		due to clarification of the challenges and
	0 ,	rough continuos Supervision.
		the Uganda side contributed 59.6% of the
	•	·
	total cost of the supervisions, while the Japan side contributed	
	40.4%. Despite the budgetary constraints caused by the COVID-19	
	•	H was able to secure about 60% of the cost.
	-	Project activities being well-established and
	playing an important rol	e in the hospital system.
Way Forward/	• Four (4) of the WSs (Jinja, Arua, Mbarara and Mubende) were
Challenges	stagnant or did not sho	w any progress. These stagnated WSs are
	generally weak in terms	s of leadership and inter-staff collaboration.
	The Project will continu	e to focus its support and advice on these
	aspects.	
	• As with the previous sup	pervisions, this round of supervision was led
	by HID/MOH engineers and a Central WS technician. The Project	
	has provided support	t to strengthen the capacity of these
	leaders/supervisors. Th	e Project will enhance the referral system for
		ntenance through continued supervision.
		G 1
Meeting so	cene, Mbale WS	Meeting scene, Soroti WS

Meeting scene, Soroti WS

(2) Update and develop the WS Operation Manual and SOPs for Planned Preventive Maintenance (PPM)

Related to	Planned from May-December 2018	
Activity 4-1		
Details	• This was the final revision of the WS Operation Manual. In addition,	

	new SOPs were developed for Plan (PPM).	ned Preventiv	e Maintenance	
	 The approval meeting was held at Mu 	bende in June	2020	
	 The foreword of both documents were signed by the Director 			
	с ,			
	General of the MOH in August.			
		 Copies of both documents were printed in September. 		
	• All copies were inspected and del			
	September. The copies were distribu	ted to the rele	evant parties in	
	October.			
Achievements	• 400 copies of the WS Operation Manu	ial (158 pages	in A5 size) and	
	200 copies of the SOPs for PPM (144 pages in	A4 size) were	
	printed.			
	• The distribution list is as follows.			
	Sites	WS	SOPs for	
		Operation Manual	PPM	
	All 15 WSs (Arua, Gulu, Lira, Soroti,	15 each	2 each	
	Moroto, Mbale, Jinja, Fort Portal,	(225)	(30)	
	Hoima, Mubende, Kabale, Mbarara, Masaka, Naguru and Central)			
	National Referral Hospital & other	15 each	2 each	
	Referral Hospitals (Mulago, Entebbe, (60) (8)		(8)	
	Kawempe & Kiruddu) Uganda Heart Institute and Uganda	15	2	
	Cancer Institute	15	2	
	National Advisory Committee on	7	7	
	Medical Equipment (NACME)Total Number of Distributions307 copies47 copies		47	
	 Total Number of Distributions 307 copies 47 copies The remaining copies, which were not distributed, are in storage at 			
	the HID/MOH.			
	S 1 /-	N /2		
	The Republic of Sponts Ministry of Freath	The Republic of Uganda Ministry of Health		
	Health Infrastructure Department	HEALTH INFRASTRUCTURE	for	
		Regional Medical Equipment Workshops and Medical Equipment Maintenan		
	Operation Manual for Regional Medical Equipment Maintenance	Volume IIa Standard Operating Procedure	es for carving	
	Workshops and Medical Equipment Maintenance Guidelines	Planned Preventive Maintenance used Medical Equipment and He Health Facilities in Ug	e on Commonly ospital Plants in	
	August 2020	August 2020		
	WS Operation Manual	SOPs for P	PM	
L	1			

Way Forward/	• The SOP book in particular is expected to play a significant role in	
Challenges	promoting preventive maintenance.	
	• It will be necessary to monitor the effective use of the distributed	
	books through supervisions.	

(3) Preparation for the 26th WS Performance Review Meeting

Related to	At least twice a year (Year-round activity)	
Activity 4-5		
Details	• A WS Performance Review Meeting was planned and prepared as follows:	
	Date17th September, 2020VenueHotel Leslona, MorotoOrganizerHID/MOH and Moroto RRHParticipantsApprox. 60-70 (Hospital directors and administrators of 14 RRHs, all WS managers, biomedical engineers, HID/MOH officials, JICA Project staff, IPs)	
	 The main objectives were: 1) communication from the HID/MOH, 2) presentation of the Quarter 3 and 4 performance reports by each WS, 3) report on the annual assessment of WS performance and presentation of the Best WS Award, 4) meeting resolutions and recommendations, and 5) setting the date and venue for the next meeting. Certificates for the Best Performance Awards (1st place "Fort Portal WS", 2nd "Soroti WS" and 3rd "Mbale WS") were prepared. 	
Achievements	• All preparations for the meeting were completed, but it was postponed due to confirmed cases of COVID-19 among Moroto Hospital staff.	
Way Forward/	• The HID/MOH and the Project aim to hold the meeting by the end of	
Challenges	2020, while being precautious of COVID-19.	
	 As in the past, allowances and transportation expenses will be covered by each WS budget, and the cost of refreshments will be covered by the JICA side. The documents and awards (for the above-mentioned objectives 1 to 5) that were prepared can be used at the next meeting, which is planned in December. 	

(Other activities)

• [ME] The JICA Expert supported the selection of candidates for the JICA training "Medical Equipment Management and Maintenance", which will be held early next year with

combination of online home-country training and overseas training in Japan. Originally there was only one slot for Uganda, but two technicians will be nominated for the possibility of two people being selected.

1-3 Achievement of Output

1-3-1 Summary of Achievements

Output 1: Due to the global COVID-19 pandemic, all JICA Experts returned to Japan in February and have not been able to travel since then. Meanwhile, the initial Project period ended. However, the one-year extension, which had already been agreed upon between JICA and the MOH, started in July 2020. At the 7th SC meeting, it was reported and agreed on that CQI(KAIZEN) ME Management and Patient Safety would be the main activities during the extended period of the Project, and that they would be done remotely from Japan using the "Programmed Instructions" method.

Output 1 The support/supervision system for health infrastructure management of all the RRHs is strengthened in the MOH.

Current Indicators	Achievements		
1-1			
The Project Steering Committee meeting	The Steering Committee meetings were		
is conducted every three months.	conducted approximately every three months.		
	Detailed dates are as follows:		
	1) 29th May 2018		
	2) 17th September 2018		
	3) 27th November 2018		
	4) 2nd February 2019		
	5) 22nd July 2019		
	6) 7th August 2020		
1-2			
The results of integrated support	From May to August, during the absence of		
supervision conducted by Project	the JICA Experts, supervision was carried out		
Implementation Teams, and the next	by the MOH staff. The details of		
quarter action plan developed from these	implementation were reported at the 6th SC		
results, are shared and approved at every	meeting.		
Project Steering Committee meeting.			
1-3			
The roadmap for incorporating the Project	As a result of Uganda making COVID-19		

activities into the policy and systems of	infection control its top priority, not much can
MOH is established and implemented by	be expected in terms of the budget allocation
the Project Steering Committee.	to Project activities. On the other hand, 5S-
	CQI activities are monitored using the
	supervision in each department.
1-4	
The Project activities are successfully	Guidelines for the management of medical
incorporated into the Ministerial Policy	equipment and the facility's 5S activities were
Statement of Ministry of Health.	reported at the Ministry of Health review
	meetings and incorporated into the Ministry of
	Health activities policy.

Output 2: As the 5S evaluation was originally scheduled to be conducted in February 2021, the indicators for Output 2 will be updated once the evaluation has been executed. However, in the meantime, the implementation of Programmed Instructions is expected to increase awareness of CQI(KAIZEN) and maintain the performance of 5S-CQI at each facility.

In addition, the Programmed Instruction for strengthening medical equipment management has benefits to enhance knowledge and interest in optimal use of equipment not only of engineering staff, but also of physicians, nurses, and top hospital management. These new approaches, as part of digital transformation, could be one way of taking a big step forward.

In May 2020, the MOH (SCAPP-D), with technical support from a Ugandan expert of the Project, supervised 5S activities at Arua RRH, Gulu RRH and Lira RRH. The Project tried to maintain the level of performance of 5S at the target hospitals, despite the absence of the JICA Experts.

[Project Implementation Team: 5S-CQI-TQM]		
Resource management and quality improvement activities are strengthened through the CQI		
approach in all RRHs.		
Current Indicators	Achievements	
2-1		
Score of Module 1 (Leadership) and 6	The MOH collected data from 10 target hospitals.	
(Health Infrastructure), Health Facility	The scores will be shared with the JICA Expert	
Quality of Care Assessment program	soon after their analysis.	
(HFQAP) Facility Assessment Tool		
- All RRHs mark (i) 5 points out of 8 as		
full mark for module 1 and (ii) 6 points		
out of 10 as full mark for module 6.		

2-2	
Score of modified 5S M&E Sheet in 5S-	Nine out of the 16 target hospitals reached the
CQI-TQM Guidelines	target: Arua, Entebbe, Jinja, Kabale, Masaka,
- All RRHs mark 33 points out of 54 as	Mbale, Mbarara, Mubende and Naguru. (See
full mark for at least two consecutive	Figure 1)
years.	

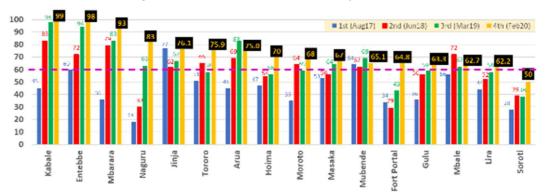


Figure 1: The results of 5S M&E by hospital

Output 3: Supervision of UT was implemented using the methods that have been taught by JICA Experts in the past. However, due to the COVID-19 pandemic, it has not been carried out in the past three months due to restrictions on travel to rural areas. However, the management of the target hospitals have a deep understanding of UT activities, and the RWS is cooperative. In addition, financial support from other IPs is being obtained, and the environment for UT activities has improved, so sustainability of the activities can be expected.

The indicators will not be updated this term.

[Project Implementation Team: UT]	
Proper utilization of medical equipment through UT is improved in all RRHs.	
Current Indicators Achievements	

There are at least two regional User Trainers at all RRHs.	The number of	Lloor Tro		
-		The number of User Trainers is shown below:		
	Hospital	Name	No. of User Trainer	S
	Arua		2	
	Fort Por	tal	2	
	Gulu		2 2	
	Hoima			
	Jinja		2	
	Kabale		2	
	Lira		3	
	Masaka		2	
	Mbale		2	
	Mbarara	l	2	
	Moroto		2	
	Mubend	е	2	
	Naguru			
	Soroti Entebbe		3 3	
	Total	;	33	
		()		
	*As of the end of	of April 20)20	
3-2 The number of UT conducted by	The number of	UTs is sh	nown below:	
regional User Trainers is more than	Hospital name	e No.		No.
-	Arua	4	Mbale	5
three per year in every region.	Fort Portal	3	Mbarara	2
	Gulu	3	Moroto	3
	Hoima	3	Mubende	7
	Jinja	4	Naguru	3
	Kabale	9	Soroti	10
	Lira Masaka	4	Entebbe	4
	*For the period	from July	y 2019 to April 2020	
3-3				
The average percentage of medical	Baseline: 5.1%			
equipment in status B at all RRHs is not	Current data: 2.05%			
higher than 4%.				

Output 4: Despite the unusual situation created by the COVID-19 pandemic, support supervisions for WSs were continuously carried out twice a year.

By means of an almost year-long revision process, two practical manuals, "WS Operation Manual" and "SOPs for PPM," were published and distributed to all relevant parties. In particular, the "SOPs for PPM" manual was not planned originally, but was newly developed in order to help institutionalize preventive maintenance.

Although the WS Performance Review Meeting was postponed due to COVID-19, all

preparations, including the meeting budget, are completed. The meeting is expected to be held by the end of 2020.

In addition, as mentioned in Output 2, the Programmed Instructions on medical equipment management is expected to raise the awareness not only of engineering staff, but also of physicians, nurses, and top hospital management regarding equipment issues.

Along with these achievements, the Project activities corresponded with the improvement of WS maintenance and management capacities, which aligns with the goal of Output 4.

[Project Implementation Team: ME]				
ME and management capacity of WSs are strengthened.				
Current Indicators	Achievements			
(1) The average increase of scores	Average increase of scores of the past nine training			
between the pre-test and post-	sessions: 29.4% (The target was achieved.)			
test is at least 15%.				
(2) The average of percentage of	Baseline: 22.1%			
medical equipment in status C	End line: 10.1% (Achieved)			
and status E at all RRHs is not				
higher than 15%.				

1-4 Achievement of the Project Purpose

During the initial Project period (~ June 2020), small CQI and KAIZEN cases were developed at some target facilities. In addition, performance indicators in terms of equipment maintenance were achieved through the maintenance of WS inventory data and the activities of User Trainers. Using the knowledge and skills learned through PI, RRHs (Fort Portal, Hoima and Soroti) are expected to add to the achievement of the Project Purpose through the actual implementation of CQI(KAIZEN) on ME management. Regarding Patient Safety, 3 RRHs (Kabale, Entebbe and Naguru) are expected to utilize the tools of CQI(KAIZEN) and the implementation of small CQI(KAIZEN) to help develop a culture of safety for patients and staff.

Current Indicators	Achievements		
(1) CQI Process or Quality Control	Nineteen cases of CQI Process are being		
(QC) Story	implemented at Kabale RRH, and six were		
-The number of cases of CQI	completed. Three cases of CQI Process are being		
Process or QC Story amounts to	carried out at Entebbe RRH.		
more than three.			

At least one case of small CQI was practiced at 12
out of the 16 target hospitals: Entebbe RRH, Gulu
RRH, Jinja RRH, Kabale RRH, Masaka RRH,
Mbale RRH, Mbarara RRH, Moroto RRH,
Mubende RRH, Naguru RRH, Soroti RRH and
Tororo GH.
Baseline: 65.1%
End line: 83.5%
Integrated supervision of three components of
health infrastructure management was conducted.
Supervisions were implemented 14 times, in
November 2018 (1), February 2019, March 2019
(2), April 2019 (1), May 2019 (2), July 2019 (1),
August 2019 (1), October (1) and November 2019
(1), May 2020 (2), June 2020 (1) and July 2020 (1).

1-5 Relationship between Project Achievements and COVID-19

The RRHs, the Project targeted sites, have been managing and treating COVID-19 patients and critically ill patients. Their new ICUs are being established and equipped as designated COVID-19 isolation and treatment centers.

The challenges are how to effectively utilize limited resources (for example, healthcare workers, infrastructure, and medical equipment) to achieve maximum outcomes in the fight against COVID-19.

The Project outcomes have comprehensively contributed to tackle the above challenges in the RRHs as follows.

- The component on 5S-CQI(KAIZEN)-TQM gave the skills of RRHs staff members to improve the work environment, optimize work processes and solve small problems/issues. Especially, the 5S ZONING method was introduced in the hospital (Entebbe RRH) to identify the safety space for COVID-19 patients, general patients, and medical personnel to prevent nosocomial infections. It also standardized the handling of COVID-19 patients to protect the safety of non-COVID-19 patients and medical personnel.
- The component on User Training of medical equipment allowed the nurses to operate the equipment properly, reduce mishandling, and revitalize unused equipment.
- The component on medical equipment maintenance contributed to the increase in the ratio of equipment which are being used at the RRHs, through institutionalizing support supervision, performance review meetings, technical trainings, equipment inventory analysis, etc.

1-6 Changes of Risk and Actions for Mitigation

After being required to leave Uganda due to the COVID-19 pandemic, none of the JICA Experts have returned as of October 2020. However, the availability of communication tools such as SNS (e.g. WhatsApp), YouTube and Zoom enabled the Project to implement activities such as the PI on ME management and Patient Safety.

1-7 Progress of Actions Undertaken by JICA

- (1) After the Terminal Evaluation in March 2020, and following a decision within JICA, the MOH and JICA agreed to an extension of the Project in May 2020, and the Project was extended for one year until July 2021. Based on the recommendations of the Terminal Evaluation, the activities of the Project should include the establishment of the CQI of health infrastructure, the cultivation of a culture of safety that will lead to Patient Safety, supervision, and study tours.
- (2) JICA Uganda provided the following items to the Ministry of Health as part of COVID-19 infection control. Items were Hand sanitizer 20L 650 pieces, Hand sanitizer 500ml 2,000 pieces, Surgical mask(N95) 6,000 pieces, Disposal mask 8,000 pieces, Surgical gloves 3,000 pieces, Disposal gloves 6,000 pieces, Surgical boots 100 sets, Personal Protective Equipment 100 sets, Trash bin 50L and Trash bin liners (red, yellow, black) each 30 pieces. The MOH distributed these items to health facilities that were heavily burdened with COVID-19 infection control.

1-8 Progress of Actions Undertaken by the Government of Uganda

(1) Since February of this year, the MOH has been prioritizing activities related to COVID-19 measures, and it has been difficult for the MOH to support project-related budgets. This priority does not change in the new fiscal year, but as shown in the table below, the Project was able to secure some of the budget for the HID Project.

									UGX
Date	MOH	Activities Venue	Venue	MOH		Japan side		Total	
	Date Dept.	Activities	Activities Venue	Allowand	ce/Other	Allowance	e/Other	TUTAL	
	May	SCAPP-D	5S-CQI-TQM supervision	Arua, Gulu, Lira		0%	4,508,000	100%	4,508,000
	Maria	ay CS		Arua, Gulu, Lira, Soroti, Moroto,	0.0/	7 000 000	100%	7.063.300	
	May		UT supervision	Mbale, Jinja		0%	7,063,300	100%	1,003,300
2020			Retreat meeting for Finalizing						
	Jun	HID an	and approving WS Manual and	Mubende		0%	5,790,000	100%	5,790,000
			SOPs						
				Jinja, Mbale, Soroti, Moroto, Lira,					
l	July-Aug	ug HID ME supervision	ME automision	Gulu, Arua, Masaka, Mbarara,	6.156.000	60%	4.176.000	40%	10.332.000
	July-Aug		Kabale, Fort Portal, Mubende,	0,150,000	00%	4,170,000	40%	10,352,000	
				Hoima, Central, Naguru					
					6,156,000	22%	21,537,300	78%	27,693,300

1-9 Progress of Environmental and Social Considerations (if applicable)

None.

1-10 Progress of Considerations on Gender/Peacebuilding/Poverty Reduction (if applicable)

None.

1-11 Other Remarkable/Considerable Issues Related to/Affecting the Project (such as other JICA Projects, Activities of Counterparts, Other Donors, Private Sectors, NGOs, etc.)

- (1) The Project for the Improvement of Regional Referral Hospitals in Northern Uganda is a grant aid Project run by the Japanese government. This Project aims to strengthen hospital functionality by constructing facilities and providing medical equipment to hospitals (Arua, Gulu and Lira RRH) in northern Uganda, and to improve the quality of and access to health services. JICA signed a grant agreement with the Government of Uganda to provide grant aid of up to 2.86 billion yen for this Project on 26th April 2018. The target facilities of the grant aid Project include the RRHs. The Project is expected to create a positive influence on health service delivery in the hospitals and motivate hospital staff to improve their workplace environment. Construction work on these three hospitals started in June 2019. However, the construction work has not been resumed since February of this year due to the emergency return of the contractor to Japan following the outbreak of COVID-19.
- (2) Regional Health Integration to Enhance Services (RHITES) is a 5-year Project that has been operating since 2017, funded by the United States Agency for International Development (USAID). RHITES supports the Government of Uganda and key stakeholders to increase the availability and utilization of high-quality health services. The purpose of this Project is to secure services to support the design and implementation of comprehensive, integrated investment in health, especially at the regional level, for HIV/AIDS and nutrition assistance in the entirety of Uganda. In terms of Quality Improvement, the achievement of outcomes in the Project target facilities will be accelerated through human resource development done by RHITES.
- (3) The Korea Foundation for International Healthcare (KOFIH) is a public affiliated organization of the Ministry of Health and Welfare of the Republic of Korea. KOFIH has been active in Uganda since 2017, implementing various projects, including establishing an emergency medical service system and community health system with the MOH. KOFIH targets the Bukomansinbi district and Masaka region. In the target area of KOFIH, the equipment and technology provided will contribute to improving the skills of the staff members in the

project's target facilities.

2 Delays of Work Schedule and/or Problems

2-1 Details of the causes

- (1) The following activities have been postponed due to the COVID-19 crisis:
 - Approval and printing of the User Training guidelines and manuals by SMC and TMC
 - Regular holding of the WS Performance Review Meeting
 - Support supervision
 - CQI training
 - Incident Report training

The JICA Experts will continue to provide guidance for understanding CQI and cultivating awareness that will lead to Patient Safety using the PI method, so that they can start CQI training and Incident Report training immediately after returning to Uganda.

(2) Delay of assessment of target facilities by the Health Facilities Quality Assessment Program (HFQAP)

The MOH conducted a HFQAP assessment for 1,989 health facilities in 74 out of 127 districts (58.3%), including 10 hospitals out of 16 target facilities.

3 Modification of the Project Implementation Plan

The Ministry of Health and JICA agreed to extend the Project period for one year from July 2020.

II. Project Monitoring Sheet I & II

Attachments:

- I. Project Monitoring Sheet I
- II. Project Monitoring Sheet II

End

Project Monitoring Sheet I

-	-
Project Title:	Project on Improvement of Health Service through Health Infrastructure Management (II)
Implementing agency:	Standards, Compliance, Accreditation and Patient Protection Department, Directorate of Health Governance and Regulation, Ministry of Health (MOH) (5S-CQI-TQM)
	Clinical Services Department, Directorate of Curative Services, MOH (Utilization of Medical Equipment)
	Health Infrastructure Department, Directorate of Strategy, Policy and Development, MOH (Maintenance of Medical Equipment)
Target Group:	(1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe RRH, Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, Moroto RRH, Mukuju HC IV, To
	(2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital
Period of Project:	July 2016- July 2021
Target Site:	Republic of Uganda

Narrative Summary	Objectively Verifiable Indicators	Achievement	Remarks
Quality of health care services at all the RRHs in Uganda is improved.	 Clients' satisfaction level is improved to the target level. (XX) Clients' waiting time of patients for consultation, testing, clinical examination, and prescription of drugs are reduced XX% Maintenance cost regarding medical equipment is decreased in XX%. 		
Project Purpose			
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH.	status A at all RRHs is higher than 70%.	 (1) 19 cases of CQI Process are being implemented and 6 were completed at Kabale RRH. 3 cases of CQI Process are being carried out at Entebbe RRH. (2) At least one case of small CQI was practiced at 12 out of 16 target hospitals. (3) 83.5% (average of 14 RRHs) (4) Joint supervision of 3 components concerning health infrastructure management was conducted 6 times. 	
Output 1			
1. [Project Steering Committee] Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH.	 next quarter action plan developed from these results are shared and approved at every Project Steering Committee meeting. (3) The roadmap for incorporating the Project activities into the policy and systems of MOH is established and implemented by the Project Steering Committee. (4) The Project activities are successfully incorporated 	 were conducted 6 times during May 2019 to August 2020. (2) From May to August, during the absence of the JICA Experts due to the COVID-19 outbreak, supervision was carried out by the MOH staff. The details of implementation were reported at the 6th SC meeting. (3) As a result of Uganda making COVID-19 infection control its top priority, not 	

Version. 9 Dated 25th December 2020

Tororo GH

Output 2		
2.[Project Implementation Team: 5S-CQI-TQM] Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.	 (1)Score of module 1 (Leadership) and 6 (Health Infrastructure) HFQAP Facility Assessment Tool All RRHs mark (i) 5 points out of 8 as full mark for module 1 and (ii) 6 points out of 10 as full mark for module 6. (2)Score of modified 5S M&E Sheet in 5S-CQI-TQM Guidelines All RRHs mark 33 points out of 54 as full mark at least two consecutive years. 	 MOH collected data from ¹ hospitals, and the score will b the Japanese side soon. Nine out of the 16 target h reached the target: Arua, Enter Kabale, Masaka, Mbale, Mbale, Mbale, Mubende and Naguru.
Output 3		
3.[Project Implementation Team: User Training] Proper utilization of medical equipment through UT is improved in all RRHs.	 (1) There are at least two regional user trainers at all RRHs. (2) The number of UT conducted by regional User Trainers is more than three as per year in every region. (3) The average of percentage of medical equipment in status B at all RRHs is not higher than 4%. 	 (1) There are a total of 33 reg Trainers(at least two regional per RRH) at 15 RRHs. (2) 4.6 times (average numbe at 15RRHs). (3) 2.05% (average of 14 RRH)
Output 4		
4.[Project Implementation Team: ME maintenance] ME maintenance and management capacity of workshops (WS) are strengthened.	 The average increase of scores between the pre-test and post-test is at least 15%. The average of percentage of medical equipment in status C and status E at all RRHs is not higher than 15%. 	(1) 29.4% (average of 9 past (2) 10.1% (14 RRHs, as of Fe
Activities	Input	
1-1 Establishment of foundation for the Project and implementation	The Japanese side	
1-1-1 Establish Project Steering Committee	 Dispatch of Experts Chief advisor / QI Management System 	
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	2) 5S-CQI-TQM	
1-1-3 Develop Terms of Reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project	 3) Utilization of Medical Equipment 4) Maintenance of Medical Equipment 5) Project Coordinator/ Training Management 	
1-1-4 Conduct baseline survey	2. Machinery and equipment	
1-2 Support Supervision on health infrastructure management	1) Necessary supplies for 5S-CQI-TQM to target	
1-2 Support Supervision on health infrastructure management 1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels	hospitals and MOH headquarters 2) Testing and calibration tools and equipment etc.	
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility	hospitals and MOH headquarters	
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels 1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice	hospitals and MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities	
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels 1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME	hospitals and MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities	
 1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels 1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME 1-3 Project implementation, monitoring and evaluation and institutionalization 1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being 	hospitals and MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities	
 1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels 1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME 1-3 Project implementation, monitoring and evaluation and institutionalization 1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 	hospitals and MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities	
 1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels 1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME 1-3 Project implementation, monitoring and evaluation and institutionalization 1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies 	hospitals and MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities	

rom 10 target will be given to	
get hospitals Entebbe, Jinja, Mbarara,	
3 regional User onal user trainers	
mber of training	
RRHs).	
bast trainings) of February 2020)	

2.[Project Implementation Team: 5S-CQI-TQM]	
2-1 Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	
2-2 Define criteria for national show case of 5S-CQI-TQM and review national show case(s)	
2-3 Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels	
2-4 Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.	
2-5 Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	
2-6 Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	
2-7 Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI	
2-8 Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and ME in collaboration with UT ar ME activities under the direction of Project Steering Committee Activity 1-2-2	nd
3.[Project Implementation Team: User Training]	
3-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	
3-2 Conduct refresher training of user trainers in the previous Project phase.	
3-3 Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals	
3-4 Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-T and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2	ΓQM
4.[Project Implementation Team: Maintenance]	
4-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	
4-2 Conduct leadership and management training for workshop managers including inventory data analysis	
4-3 Conduct training for workshop staffs on maintenance of basic medical equipment	
4-4 Conduct training for core staff of workshops in first line maintenance of specialized medical equipment	
4-5 Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops	
4-6 Support Workshops to develop a system for sharing knowledge and skills	

Attachment I

Project Monitoring Sheet II (Revision of Plan of Operation)

Project Title: Project on Improvement of Health Services through Health Infrastructure Management (II)

	ct Title: Project on Improvement		th Se			идп пе	aith infra			manay	Jeine				-				1			-				1			
nputs		Plan Actual	-	2	016	IV	1	2017	III	IV			18 III	IV		2	019 III	IV		20	20 III IV		<u>20</u>	21	IV	Be	emarks		toring
xpert		Aotuui			1	1 10	•	•																		110	inditio	Issue	Solution
Chief Adv	risor/QI Management System	Plan																										None.	None.
		Actual Plan																											
Assist Ch	ief Advisor/QI Management System	Actual																										None.	None.
5S-CQI-T	IQM ①	Plan Actual				_																						None.	None.
5S-CQI-T	ОМ (2)	Plan Actual																										None.	None.
Utilization	of Medical Equipment	Plan																										None.	None.
		Actual Plan																											
	nce of Medical Equipment	Actual Plan																										None.	None.
Project Co	oordinator/Training Management	Actual																										None.	None.
quipme									. 1	· · · ·						1	.												
Project ve administra	chicles and equipment/materials necessary for the Project	Plan Actual																				_						None.	None.
	in Japan													1 : :			1 : :	1 : :											
		Plan																										None.	None.
	ry/Third country Training	Actual																											
		Plan																											
Tanzania	KAIZEN TOT	Actual																										None.	None.
ctiviti		Plan			016			2017					18				019			20	20		20		. : :	Responsibl	le Organization		
	Sub-Activities	Actual	I	II		IV	· · · · · · · · · · · · · · · · · · ·				I		III	IV		II	III	IV	I		III IV	I	II	III	IV	пезропзыя		Achievements	Issue & Countermeasures
	Project Steering Committee] Supporting/supervisi	ng system	for hea	Ith infras	structure	managem	ent of all the	e RRHs is	s streng	gthened i	n the M	он														Japan	Uganda		Countermodebaroo
1-1 Establi	ishment of foundation for the Project and implementation	Dia													 ;	 : : T											All concerned		
1-1-1	Establish Project Steering Committee	Plan Actual	┝╋┿	+				\rightarrow	\rightarrow	\rightarrow	+		\vdash	+	+	+		+	\vdash						\vdash	Expert(s)	Department	Project Steering Committee was established.	None.
		Plan							$\rightarrow +$									+	\vdash								Members of MOH All concerned		
1-1-2	Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	Actual																				_				Expert(s)	Department	Project Implementation Teams were established.	None.
										_					_							_					members of MOH		
1-1-3	Develop terms of reference (TOR) for Project Steering Committee and Project Implementation Teams and action	Plan																								Expert(s)	Steering	Work Plan was approved by	None.
	plans for implementation of the Project	Actual																									Committee	Project Steering Committee.	
		Plan																									Implementation	Situation analysis for all the	
1-1-4	Conduct baseline survey	Actual																								Expert(s)	Team	target hospitals and workshops was conducted.	None.
1-2 Suppo	rt Supervision on health infrastructure management							-:						1 : :						: : 4				: =				· ·	
	Review and revise existing supervision system and tools	Plan																										Progress of all activities	The project team and SCAPP-D will continue to
1-2-1	through enrichment of checklists of HFQAP(Health Facility																									Expert(s)	Steering	were shared in the 4th JCC. 10 target facilities were	analyze and monitor the
1-2-1	Quality of Care Assessment Program) and allocation of 5S- CQI-TQM facilitators at national and regional levels																									Expert(s)	Committee	assessed by checklist of	results of the project outcomes and related
	CQF-TQM facilitators at national and regional levels	Actual																										HFQAP.	HFQAP assessment.
																												Integrated supervision of 3 components of health	
		Plan																										infrastructure management	
																												was conducted 10 times, in November 2018 (1),	
1-2-2	Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice																									Expert(s)	Steering	February 2019, March 2019	None.
	integrating 5S, user training and maintenance																										Committee	(2), April 2019 (1), May 2019 (2), July 2019 (1), August	
		Actual																										2019 (1), October (1) and November 2019 (1) . CQI	
																												practices in RRH as well as	
																												RWS were implemented.	
1-3 Project	t implementation, monitoring and evaluation and institutionalization	0						_				_													r	1		1	
	Organize meetings of Project Steering Committee every three	Plan																									Steering	Project Steering Committee	
1-3-1	months and review whether action plan is being implemented based on PDCA cycle	Actual																								Expert(s)	Committee	meeting was conducted in August 2020.	None.
			\vdash		+-				\rightarrow						╶┨╾╢╋														
1-3-2		Plan																								Expert(s)	Steering	Project Steering Committee meeting was conducted in	None
1-3-2	Conduct a meeting to review the actablished system in MOU																									Experi(S)	Committee	Meeting was conducted in August 2020.	NUTE.
	Conduct a meeting to review the established system in MOH	Actual		1 2 2	1 1 1				\rightarrow	+	+		┝╺╈╸	╈	╶╂╼╋═╾	┼╼╴		┼╼┢╴	┝┼╼┢		▅▀─┼─▅				\vdash			+	A large amount of the
	Conduct a meeting to review the established system in MOH								1 I I																			Project Steering Committee	Ministry of Health's budge
	Make use of review of activity 1-3-2 for institutionalization of	Actual Plan																											is allocated to COVID-19
1-3-3		Plan														1 1 1		1 5 5								Expert(s)	Steering Committee	meeting was conducted in August 2020 and results of	
1-3-3	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed																									Expert(s)		August 2020 and results of	control, and there is a lack budget related to project
1-3-3	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement	Plan Actual																								Expert(s)		August 2020 and results of	control, and there is a lack
	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good practic	Plan Actual																									Committee	August 2020 and results of supervision were shared.	control, and there is a lack budget related to project activities.
1-3-3	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement	Plan Actual																								Expert(s) Expert(s)	Committee	August 2020 and results of	control, and there is a lack budget related to project
	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good practic and lessons learned on health infrastructure management	Plan Actual Plan Actual Actual																									Committee	August 2020 and results of supervision were shared. No activity was planned.	control, and there is a lack budget related to project activities. None.
1-3-4	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good practic and lessons learned on health infrastructure management compiling 5S, UT and ME	Plan Actual Plan																								Expert(s)	Committee	August 2020 and results of supervision were shared.	control, and there is a lack budget related to project activities. None. The project experts will support the implementation
	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good practic and lessons learned on health infrastructure management	Plan Actual Plan Actual Plan																									Committee Implementation Team	August 2020 and results of supervision were shared. No activity was planned. The assessment was implemented h in April 2020, but has not been carried out	control, and there is a lack budget related to project activities. None. The project experts will support the implementation of the assessment by the Ministrux of Locoth
1-3-4	Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies developed through the Project, and make reflections if necessary to the Ministerial Policy Statement Organize study tours and QI Conference to share good practic and lessons learned on health infrastructure management compiling 5S, UT and ME Conduct an end-line survey on health infrastructure	Plan Actual Plan Actual Actual																								Expert(s)	Committee Implementation Team Implementation	August 2020 and results of supervision were shared. No activity was planned. The assessment was implemented h in April 2020,	control, and there is a lack budget related to project activities. None. The project experts will support the implementation of the assessment by the Ministrux of Month

Attachment II

Versio	on. 9		
Dated	25th	December	2020

<mark>Acti</mark>	viti	25	Plan		2	016			20	017			2	018			20)19			20	20			2	021	
		Sub-Activities	Actual	I			IV	I			IV	I			IV	I			IV	Ι	1		IV	I			IV
Outpu	ıt 2 [P	roject Implementation Team: 5S-CQI-TQM] Resou	rce mana	igement	and qua	lity impr	ovement	activities	are strer	ngthened	through	CQI appi	oach in a	all RRHs													
			Plan																								Τ
	2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	Actual																								
		-	Plan																								
	2-2	Define criteria for national show case of 5S-CQI-TQM and review national show case(s)	Actual																								
			Plan																								-
	2-3	Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels																									
			Actual																								
	2-4	Conduct leadership and management training based on the results of the baseline survey for management staff of targeted	Plan			-																					
		facilities, etc.	Actual Plan																								
	2-5	Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	Actual																								+
	2-6	Strengthen function of quality improvement team (QIT) and	Plan																								
		work improvement team (WIT) in the target facilities	Actual																								
	2-7	Conduct 5S-CQI-TQM training to target facilities based on the	Plan																								
		results of the baseline survey, with a focus on CQI	Actual																								
		Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs,	Plan																								
	2-8	periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and maintenance of ME in collaboration with UT and ME maintenance activities, etc. as mentioned in 1-2-2	Actual																								
Outpu	it 3 [P	roject Implementation Team: User Training] Prope	er utilizat	ion of m	nedical e	quipmen	t through	UIISIM	proved in	all RRH	1 : :														1 : :	1 : :	<u> </u>
	3-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	Plan																								
		······································	Actual																								
	3-2	Conduct refresher training of user trainers in the previous Project phase	Plan Actual																								
	3-3	Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals	Plan Actual																								
		Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM	Plan																								
	3-4	and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2	Actual																								
Outpu	ıt 4 [P	roject Implementation Team: ME maintenance] M	E mainter	nance a	nd manag	gement o	apacity o	f worksh	ops (WS)	are strer	ngthened																
		Update and develop manuals, handbooks, guidelines, and	Plan																								
	4-1	monitoring tools for dissemination as necessary	Actual																								
	4-2	Conduct leadership and management training for workshop managers including inventory data analysis Conduct training for workshop staff on maintenance of basic	Plan Actual Plan																								
	4-3	medical equipment	Actual																								
	4-4	Conduct training for core staff of workshops in first line maintenance of specialized medical equipment	Plan Actual																								
	4-5	Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops	Plan																								
			Actual																								
	4-6	Support Workshops to develop a system for sharing knowledge and skills	Plan																								
			Actual																								

	D	.		
/	-	e Organization	Achievements	Issue & Countermeasures
:	Japan	Uganda		
	Expert(s)	Implementation Team	5S-CQI-TQM Facilitators' Guidebook were printed and distributed to the target hospitals.	None.
	Expert(s)	Steering Committee	Data were collected for 4th M&E of 5S performance in February 2020, followed by analysis in March.	None.
	Expert(s)	Steering Committee	No activity was conducted since qualification, role and responsibility of the facilitators were clarified and described in the 5S-CQI- TQM Guidelines in 2019.	None.
	Expert(s)	Implementation Team	No training was planned.	None.
	Expert(s)	Implementation Team	No training was planned.	None.
	Expert(s)	Implementation Team	Training in patient safety was done at Kabale RRH under supervision. Support for functionalization of medical equipment as TOM was also continued. Programmed Instruction (P.I.) of CQI on Health Infrastructure and Patient Safety were conducted.	Patient safety is new approach, so it is necessary to continue supervision.
	Expert(s)	Implementation Team	No group training was planned. Programmed Instruction (P.I.) of CQI on Health Infrastructure and Patient Safety were conducted.	None.
	Expert(s)	Implementation Team	Support supervision for 3 RRHs were carried out in May 2020. Programmed Instruction (P.I.) of CQI on Health Infrastructure and Patient Safety were conducted.	None.
	Expert(s)	Implementation Team	A draft of the UT manual has been created. The draft UT guidelines have passed the TWG review. However, SMC meeting was not held.	Both documents will be approved and printed after SMC and Top Management Committee Meeting in the 3rd quarter.
	Expert(s)	Implementation Team	No relevant activity.	None.
	Expert(s)	Implementation Team	No relevant activity.	None.
	Expert(s)	Implementation Team	Support supervision for 7 RRHs were carried out in May 2020.	Continued guidance on how to operate the equipment inventory system with cooperation from Workshop is needed.
	Expert(s)	Implementation Team	The WS Operation Manual (400 copies) and SOPs for PPM (200 copies) were printed and distributed to the relevant parties.	None.
	Expert(s)	Implementation Team	None.	None.
	Expert(s)	Implementation Team	None.	None.
	Expert(s)	Implementation Team	None.	None.
	Expert(s)	Implementation Team	Support supervision for all WSs were carried out in July-August 2020. WS Performance Review Meeting (originally planned in September) was postponed due to COVID- 19.	WS Performance Review Meeting will be re-scheduled to November.
	Expert(s)	Implementation Team, all WS managers	The WS Performance Review Meetings and routine support supervisions are institutionalized as the platform for sharing knowledge and skills.	Although WS Performance Review Meeting was postponed, all preparations have been done and the budget has been kept as well as regular support supervision. The supporting system is maintained by the HID/MOH.

ouration / Phasing	Plan																									
	Actual																									
onitoring Plan	Plan	20	016			20	017		1	20)18		1	2	019			20	020		2	021		Domorko	lagua	Colution
	Actual			IV	I			IV		II	III	IV			III	IV	I		III	IV	II	III	IV	Remarks	Issue	Solution
onitoring																										
Joint Coordinating Committee	Plan																								None.	None.
Some Coordinating Committee	Actual																								NOTE.	NOTE.
Set-up the Work Plan of Operation	Plan																								None.	None.
Set-up the work Flatt of Operation	Actual																								NOTE.	None.
Submission of Monitoring Sheet	Plan																								None.	None.
Submission of Monitoring Sheet	Actual																								None.	None.
Monitoring Mission from Japan	Plan																								None.	None.
Monitoring Mission non Japan	Actual																								None.	None.
Joint Monitoring	Plan																								None.	None.
	Actual																								None.	None.
Post Monitoring	Plan																								None.	None.
	Actual																								NOTE.	NOTE.
ports/Documents																										
Progress report	Plan																								None.	None.
Flogless lepolt	Actual																								NOTE.	NOTE.
Project Completion Report	Plan																								None.	None.
	Actual																								NOTE.	NOTE.
blic Relations																										
	Plan																									
	Actual																									
	Plan																									
	Actual																									

To the CR of JICA Uganda Office

Project Monitoring Report Sheet

Project Title: Improvement of Health Services through Health Infrastructure Management II Version of the sheet: 9 (Term: 1st November 2020 – 31st March 2021)

Name: Dr. Olaro Charles <u>Title: Project Director</u> <u>Name: Hiroshi Tasei</u> <u>Title: Chief Advisor</u> <u>Submission Date: 21st May 2021</u>

I. Summary

1 Progress and Achievements of the Project

1-1 Progress of Inputs

[The Japanese side]

1-1-1 Dispatch of JICA Experts (Initial plan→results)

Nama	20	20		2021		Total
Name	11	12	1	2	3	(days)
Hiroshi Tasei Chief Advisor/QI Management System①						$81 \rightarrow 0$
Shizu Takahashi Vice Chief Advisor/QI Management System②						$30 \rightarrow 0$
Naoki Take 5S-CQI-TQM①						42→ 0
Yujiro Handa 5S-CQI-TQM②				-		$15 \rightarrow 0$
Naoki Mimuro Maintenance of Medical Equipment						43→ 0
Emi Onosaka Project Coordinator/Training Management						72→ 0

*The initial plan was to start local activities in July 2021, but due to the COVID-19 pandemic all trips were cancelled, and activities were reallocated within Japan. However, Programed Instruction (PI) and supervisions at target facilities were carried out remotely from Japan and by Ministry of Health (MOH) officials.

1-1-2 Procurement of testing and calibration equipment by JICA to fight COVID-19

The following activities were conducted:

• Assisting with equipment procurement procedures, such as evaluating the requested equipment, monitoring the shipment status of the equipment, preparing for acceptance, and preparing for the handover ceremony.

[The Ugandan side]

1-1-3 Assignment of Counterparts

- (1) One MOH official (Principal Medical Officer, PMO) carried out monitoring and evaluation for 5S in March 2021.
- (2) Two MOH officials (a senior engineer and a biomedical engineer from the Health Infrastructure Department, MOH (HID/MOH)) carried out support supervision for Regional Workshops (RWSs) in November and December, 2020 and March 2021.

1-2 Progress of Activities

1-2-1 Activities of Output 1

(1) 7th Annual National Healthcare Quality Improvement Conference

Related to Activity	Planned in December 2020
1-3-4	
Details	• The 7th Annual National Healthcare Quality Improvement
	Conference (QI Conference) was held in Kampala from 2-4
	December 2020 (both in-person and virtually).
	• The Project arranged a keynote speech by Prof. Yujiro Handa, an
	expert on 5S-CQI (KAIZEN)-TQM, titled "What we can do for
	strengthening foundations of safety culture of hospitals".
	• The Project supported target hospitals in writing abstracts and
	designing presentations.
	 The Project supported a meeting to review the abstracts.
Achievements	 Prof. Handa made the keynote speech as planned.
	• In total, six abstracts were accepted from Kabale Regional Referral
	Hospital (RRH) as oral presentations, and one from Entebbe RRH
	as a poster.
Way Forward/	None.
Challenges	

Related to	Started in July 2020
Activity 2-7	
Details	• The Project continued to provide PI for target hospitals to train in
	CQI (KAIZEN) for management of ME, using dialogues (through
	WhatsApp) and video lectures (through YouTube).
	• Three RRHs were selected as targets: Fort Portal, Hoima and
	Soroti. Ten staff members from each hospital participated in the PI
Achievements	• In total, 19 out of 30 participants completed the PI (five from For
	Portal, eight from Hoima and six from Soroti). In spite of problems
	with Internet connections, many participants actively engaged in
	the dialogues and exercises.
	 As planned, lectures were uploaded on YouTube every Thursday
	for nine weeks, for a total of 13 videos. At the same time, nine type
	of exercise templates designed to facilitate the smoot
	implementation of KAIZEN were newly created and used. (Se
	below for details.)
	• The participants, led by the team leaders and secretarie
	appointed by the Hospital Directors, performed the exercises wel
	• Each of the three RRHs has developed and implemented multiple
	CQI (KAIZEN) action plans for their pilot areas. At the end of
	March, half of the activities had been achieved, while the
	remainder were partially accomplished or not yet started.
	 For the purpose of stimulating KAIZEN activities, the following
	materials were provided by the Project, based on requests from
	each hospital team:
	1) Fort Portal: Notice boards, printer cartridges, dry paint, pain
	brushes, laminating pouches and stationery (19 items),
	2) Hoima: Voltage stabilizers, portable Wi-Fi, notice boards, cli
	boards, flip charts, laminating paper and stationery (23 items)
	3) Soroti: Flip-chart stand, laminator, notice boards, dry paint
	masking tape, brushes, paraffin and stationery (18 items).
Videos Uploaded	on YouTube
Date Title	YouTube Link
	troduction (7:38) https://youtu.be/2L9sYiBo6F0 tep-1 Theme Selection, Volume-1 (11:58) https://youtu.be/IFsUkJQ3XhU
22 Oct. KAIZEN St	ep-1 Theme Selection, Volume-2 (13:22) <u>https://youtu.be/UuDc-mlr-cY</u>
29 Oct. What is a F	Problem? (7:20) <u>https://youtu.be/l3uoya6ko</u>

1-2-2 Activities of Output 2

(1) Programed Instruction (PI) on KAIZEN for Medical Equipment (ME) Management

29 Oct.	KAIZEN Step-2, Situation Analysis, Volume-1 (17:49)	https://youtu.be/0L254y-L5yY
5 Nov.	KAIZEN Step-2, Situation Analysis, Volume-2 (16:16)	https://youtu.be/18h3QBscytQ
12 Nov.	KAIZEN Step-3, Root Cause Analysis, Volume-1 (18:31)	https://youtu.be/GrIRIQJA0GU
19 Nov.	KAIZEN Step-3, Root Cause Analysis, Volume-2 (14:33)	https://youtu.be/K8-NGRP_2lk
26 Nov.	KAIZEN Step-4, Identification of Countermeasures	https://youtu.be/U3poovPsJk4
	(18:07)	
03 Dec.	KAIZEN Step-5, Implementation of Countermeasures	https://youtu.be/KU06KU6zwcY
	(19:11)	
10 Dec.	KAIZEN Step-6, Assessment (16:06)	https://youtu.be/UXGEouHIMbY
17 Dec.	KAIZEN Step-7, Standardization and Recap for the Past	https://youtu.be/QHmRjwchIOA
	Steps 1-6 (16:14)	
17 Dec.	What is Small KAIZEN? (7:07)	https://youtu.be/eHLwOL1TkYY

Newly Created Exercise Templates

Date	Template No.	Name of Template
22 Oct.	1	Reporting Form for Exercise
29 Oct.	2-1	Medical Equipment Inventory Taking Sheet
29 Oct.	2-2	Medical Equipment Location Map Drawing Sheet
4 Nov.	2-3	Medical Equipment Inventory Data Analysis Sheet
11 Nov.	3	Problem Tree Diagram/ Root Cause Analysis Drawing Sheet
25 Nov.	4	Identification of Countermeasures/ Matrix Diagram Sheet
03 Dec.	5	KAIZEN Action Plan Describing Sheet
10 Dec.	6-1	Self-Monitoring Sheet
10 Dec.	6-2	Assessment Sheet

Video viewing and exercises



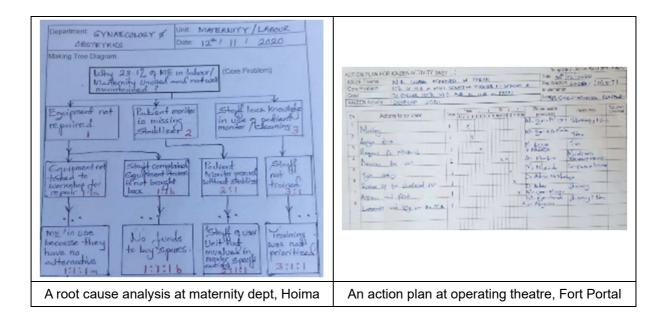
Good practices for using materials and stationery provided by the Project



Way Forward/	• The Project will support the RRHs through the review meeting in
Challenges	March (see the next item), followed by in-person supervisions.
	• It is likely that only half of the participants will be actively engaged
	in the exercises on KAIZEN Step-1 to Step-5 after watching the
	above-mentioned YouTube videos due to their busy workdays. The
	Project will support the continuation of activities in the current
	format because of the unfeasibility of full participation.

(2) Review Meeting for PI for ME Management

Related to	Held just after completion of the PI	
Activity 2-6/2-8		
Details	• The Project held a virtual review meeting on 4th March 2021 as an	
	opportunity for the hospitals participating in PI (Fort Portal, Hoima	
	and Soroti) to present the progress of KAIZEN activities and	
	exchange their experiences. The meeting was also a proxy for	
	supervision by JICA Experts under the COVID-19 pandemic.	
	 In addition to the three hospitals and the JICA Experts, the Ministry 	
	of Health (MOH) and JICA (HQs and Uganda Office) also attended	
	the meeting.	
Achievements	• Representatives of the three hospitals presented their progress	
	clearly, utilizing the format prepared by the Project.	
	• The hospitals were able to perform root cause analysis and	
	implement some of the identified countermeasures by themselves.	
	Their progress was beyond the expectations of the JICA Experts.	
Way Forward/	• The Project will support the hospitals' efforts through in-person	
Challenges	supervision, e.g. from the aspect of effective utilization of inventory	
	data to set targets for better ME management.	



(3) 5th Monitoring and Evaluation of 5S Performance at the Target Hospitals

Related to	March 2021	
Activity 2-2		
Details	• In response to the willingness of the Standards, Compliance,	
	Accreditation and Patient Protection Department (SCAPP-D) of	
	the MOH to evaluate 5S performance, the Project supported the	
	following activities:	
	1) Allocation of 5S-CQI-TQM facilitators to target hospitals for	
	data collection.	
	2) Setting a schedule for data collection through discussions	
	between the hospital management and the facilitators.	
	3) Making administrative arrangements for the evaluation (e.g.,	
	distribution of data collection tools).	
Achievements	• In February and March 2021, the facilitators collected the data at	
	all hospitals except Entebbe RRH (see below).	
Way Forward/	 According to the director of Entebbe RRH, the hospital is not ready 	
Challenges	to receive the facilitators, as they are completely concentrated on	
	responding to COVID-19 pandemic. The Project will evaluate the	
	5S performance of Entebbe RRH when they are ready (by the end	
	of April 2021).	
	• The data from the other 15 hospitals will be analyzed in April.	

Related to	From May-December, 2018		
Activity 2-1			
Details	• This activity was not planned in the beginning. However, in order		
	to efficiently cascade knowledge	on CQI (KAIZEN) to the RRHs	
	and other lower health facilities in	Uganda, the Project decided to	
	develop teaching materials (a picture-story).		
Achievements	• The drafts of the front page (illustration) and back page		
	(explanation) were completed and	proofread in December 2020.	
	• The JICA Experts ordered the printing of the picture story from a		
	local company in March 2021. The materials will be ready in April		
	2021.		
Way Forward/	• The materials will be printed out and shared with the national 5S-		
Challenges	CQI-TQM facilitators and others in April/May 2021.		
KAIZEN Handbo	KAIZEN Core 3 • Utraspond machines of a regional workshop-	AREN CAR S AND CAR S	
KAIZEN Handbook (F	ront) KAIZEN Case 3 (Front)	Back side	

(4) Development of Teaching Materials for CQI (KAIZEN)

(5) Programed Instruction on Patient Safety

	-	
Related to	Started in July 2020	
Activity 2-7		
Details	• The Project continued to provide PI for target hospitals to	
	train in patient safety, using dialogues (through WhatsApp)	
	and video lectures (through YouTube).	
	• Three RRHs were selected as targets: Kabale, Naguru and	
	Entebbe. Thirty-one staff members participated in this PI.	
Achievements	• Learners were asked 10 questions regarding patient safety.	
	However, there were some difficulties in carrying out the	
	dialogues smoothly because of busy workdays and the	
	social media ban during the presidential election (January	
	2021). As a result, learners were instructed to answer all the	
	questions by 19th February 2021.	

	 seemed to understand the threlationship between paties Some participants requester with other staff. In total, 17 out of 31 particip 10 for Kabale, 6 out of 11 Entebbe). In spite of the connection, and without any half of the participants active. Thirteen YouTube videos with the from November 2020 to Marvideos related to patient set August 2020(see below)). In videos on KAIZEN steps mare Equipment (ME) Managem shared as a review. Some views, but some got less. Interested in some themes mand the SNS ban, as well as a set of the SNS ban, as well as a set of the s	he questions through WhatsApp heories of patient safety, and the ent safety and CQI (KAIZEN). ed to share the YouTube videos bants completed the PI (8 out of for Naguru and 3 out of 10 for e problems with the Internet y financial incentives, more than ely addressed the dialogues. yere uploaded by JICA Experts arch 2021. (In total, 25 YouTube ifety have been uploaded since in addition, 10 YouTube lecture de for PI on KAIZEN for Medical ent (see above 1-2-2 (1)) were of the videos got more than 30 It appeared that learners were nore than others. Busy workdays is poor Internet connections, also her of views
	negatively affected the number of views.	
Way Forward/	 Follow-up on patient safety awareness will be done through 	
Challenges	in-person supervision in Apr	il 2021.
Videos Uploaded to YouTub	e	
Date Title		YouTube Link
	N(CQI) Patient Safety 1 (14:19)	https://youtu.be/GZ0kvsVo_p0
	N(CQI) Patient Safety 2 (6:51)	https://youtu.be/9ulayrS42CY
	N(CQI) Patient Safety 3 (8:11)	https://youtu.be/lag-eElodKw
	N(CQI)]Patient Safety 4 (22:03)	https://youtu.be/3hRDoiNI1eA
	V(CQI) Patient Safety 5 (16:55)	https://youtu.be/K5GoZozk7TA
	N(CQI) Patient Safety 6 (14:33)	https://youtu.be/niuoKDLzob4
	N(CQI)]Patient Safety 7 (10:53)	https://youtu.be/6-f4YMnlzwc
	V(CQI) Patient Safety 8 (15:11)	https://youtu.be/RYsLSpxfyD4
	N(CQI) Patient Safety 9 (10:55)	https://youtu.be/hxcnQmG8XX0
(5:00)	N(CQI) Patient Safety – Introduction	https://youtu.be/T5l8pkmZ34s
-	V(CQI) Patient Safety 10 (13:45)	https://youtu.be/9ZhpHqWc2kY
	N(CQI)]Patient Safety 11 (16:39)	https://youtu.be/sT_c1ydoVmk
	N(CQI)]Patient Safety 12 (23:36)	https://youtu.be/FNSHsKhFsz4
	N(CQI)]Patient Safety 13 (20:03)	https://youtu.be/TXk_KsJEWjQ
	[Beyond 5S-KAIZEN(CQI)]Patient Safety 14 (18:24) <u>https://youtu.be/R3IXpCK-fuw</u>	
	N(CQI) Patient Safety 15 (19:14)	https://youtu.be/-vZC1hPDnnc
20 Dec. [Beyond 5S-KAIZEN	N(CQI) Patient Safety 16 (20:14)	https://youtu.be/ZSImFcfXHrg

8 Mar.	[Beyond 5S-KAIZEN (CQI)-TQM] Patient Safety - How to make use of incident reports with KAIZEN? -	https://youtu.be/xyxCloUGE9E
19 Mar.	[Beyond 5S-KAIZEN(CQI)]Patient Safety 17 (23:23)	https://youtu.be/j40UTALnb1U
19 Mar.	[Beyond 5S-KAIZEN(CQI)]Patient Safety 18 (14:44)	https://youtu.be/3X-nDQ7t87o
20 Mar.	[Beyond 5S-KAIZEN(CQI)]Patient Safety 19 (13:44)	https://youtu.be/u4EJI7KexyA
20 Mar.	[Beyond 5S-KAIZEN(CQI)]Patient Safety 20 (11:48)	https://youtu.be/-cN_g7X3YIM
21 Mar.	[Beyond 5S-KAIZEN(CQI)]Patient Safety 21 (19:53)	https://youtu.be/evvkjxf9o
21 Mar.	[Beyond 5S-KAIZEN(CQI)]Patient Safety 22 (16:28)	https://youtu.be/IxPtO0QgskM
2 Apr.	[Beyond 5S-KAIZEN(CQI)]Patient Safety 23 (19:22)	https://youtu.be/GXDyCvMDIBI

(6) Support Supervisions for Patient Safety

Related to	After July 2020	
Activity 2-8		
Details	 Support supervisions for the 3 RRHs were carried out by a local project consultant and the project secretary, according to the following schedule: Kabale on 15th December, Entebbe on 17th December and Naguru on 18th December 2020. The main objectives of the supervision were as follows: To understand the situation on patient safety in each RRH To find out if there was any need for improvement in PL 	
Achievements	• The main objectives of the supervision were as follows:	

	idea on patient safety. Also, they requested the Project to share the	
	YouTube video data so that they can share it with other staff.	
Way Forward/	• The Project will conduct follow-up supervisions and supervise the	
Challenges	progress on patient safety in April 2021.	
	• The activity plan will be carried out by the targeted hospitals.	

Kabale RRH	Entebbe RRH	Naguru RRH

(7) Wrap-up Meeting for PI on Patient Safety

Related to	Held just after completion of the PI	
Activity 2-6/2-8		
Details	• The Project held a virtual wrap-up meeting on 12th March 2021 as an	
	opportunity for the hospitals participating in PI (Kabale, Naguru and	
	Entebbe) to present lessons learned and the way forward.	
	• In addition to the three hospitals and the JICA Experts, MOH and	
	JICA (HQs and Uganda Office) also attended the meeting.	
Achievements	• All the hospitals made presentations on the lessons learned and the	
	way forward. During the presentations, the hospitals reported the	
	following lessons learned: 1) the importance of rules and regulations,	
	2) the purpose of hospital safety reports, 3) the importance of 5S-	
	KAIZEN (CQI) activities in patient safety and 4) the importance of	
	maintaining a good medical record system. Hospitals also presented	
	the way forward: 1) Formulating a Patient Safety Team, 2) Training	
	the health workers on patient safety (with an emphasis on the hospital	
	safety report) and 3) Conducting monitoring and evaluation on patient	
	safety.	
Way Forward/	• The Project will conduct follow-up supervision and supervise	
Challenges	progress on patient safety.	

1-2-3 Activities of Output 3

(1) User Training (UT) Guidelines and Manuals

Related to	Planned from June 2018-March 2019	
Activity 3-1		
Details	• The Senior Management Committee (SMC) meeting was to be held	
	in May.–	
Achievements	• UT Guidelines were not approved.	
Way Forward/	• A draft version of Guidelines will be submitted to the Project	
Challenges	Manager from the Nursing Department.	
	• After holding the SMC and Top Management Committee (TMC)	
	meeting, approval of the UT Guidelines is an urgent task.	

1-2-4 Activities of Output 4

(1) Support Supervision for WSs

Related to	Twice a year (Year-round activity)		
Activity 4-5/4-6			
Details	• Two rounds of support supervision were carried out by two		
	engineers from the Health Infrastructure Department at the Ministry		
	of Health (HID/MOH), according to the following schedule:		
	1st Round (NovDec. 2020) for 15 Medical Equipment Maintenance		
	Workshops (WSs)		
	30th Nov4th Dec.	Arua, Gulu, Lira, Soroti, Moroto	
	6th-11th Dec.Hoima, Mubende, Fort Portal, Kabale, Mbarara, Masaka14th-18th Dec.Mbale, Jinja, Central, Naguru2nd Round (March 2021) for 13 WSs. Remaining two WSs (Central and Naguru) will be visited in early April 2021.		
	9th-12th Mar.	Jinja, Mbale, Soroti, Moroto	
	15th-19th Mar.	Masaka, Mbarara, Kabale, Fort Portal,	
		Mubende, Hoima	
	29th-30th Mar. Lira, Gulu, Arua		
	• The agenda main	ly covered four areas: 1) follow up on the	
	previously agreed-upon way forward; 2) follow up on the Intensive Care Unit (ICU) equipment that was procured mainly by other		
	donors, for all RRHs for management of COVID-19 patients, 3)		
	preparedness to	receive, use and store testing/calibration	

	equipment donated by JICA, and 4) the way forward.
Achievements	• Two rounds of the supervisions were carried out as planned, despite
	the COVID-19 threat and the absence of JICA Experts. As for cost-
	sharing, the Ugandan side covered 67% of the total expenses for
	both rounds.
	• Regarding agenda item 1) (above), a moderate status has been
	progressing in 13 of the 15 WSs (except Arua and Jinja) through
	continuous inputs by supervision visits, the WS Performance
	Review Meeting and the quarterly reporting system. The
	performance of Arua and Jinja WSs has stagnated due to ongoing
	personnel issues and poor communication within the RRH/WS.
	• Regarding agenda item 2), the ICU equipment has been delivered,
	and training has been conducted. However, more than half of the
	ICUs in the RRHs do not function well due to a lack of space, human
	resources, and skilled equipment users.
	• Regarding agenda item 3), the team informed each workshop of
	what they needed to prepare in order to receive, use and store the
	testing/calibration equipment. The equipment will be picked up by
	the workshop manager at the HID/MOH and will be handed over
	after the training is carried out.
Way Forward/	• The two workshops that are stagnant (Arua and Jinja) need
Challenges	additional support from the HID/MOH, in collaboration with the RRH
	top management.
	• The training on the use of testing and calibration equipment is
	scheduled for mid-April. The handover to each workshop will take
	place in late April or early May, once the training is complete.
	 The project on functionalization of ICU equipment is out of the scope
	of the Project, but is being led by the HID/MOH. It is possible that
	the Project will provide advice in the future.



Repair ME, Mbale WS, 14th December 2020 Meeting at Moroto WS, 12th March 2021

(2) 26th WS Performance Review Meeting (hosted by Moroto RRH)

At least twice a year (Year-round activity)
 The 26th quarterly WS Performance Review Meeting was held at Moroto on 3rd December 2020, with approximately 65 participants. The main agenda items were: 1) welcoming remarks by the Hospital Director of Moroto RRH, 2) communication from the HID Commissioner, 3) reading of the previous minutes and matters arising, 4) presentation of the JulNov. 2020 Performance Reports by each WS, and reactions, 5) dissemination of the results of the WSs' assessments for Financial Year (FY) 2019/2020 and recognition of the best performing workshops, and 6) meeting resolutions and recommendations.
 After being postponed twice due to the COVID-19 pandemic, the meeting was successfully held with the participation of the HID commissioner, RRH directors, and WS managers. In addition, the JICA Uganda office and JICA Experts attended online (via Zoom) for a short time. Numerous workshops have reported an increasing demand for the production of medical oxygen and maintenance of newly procured equipment for treating COVID-19 and other critically ill patients in RRHs and the lower health facilities. Certificates for the Best Performance Awards were handed over to the three winning workshops (1st place: Fort Portal WS, 2nd: Soroti WS, 3rd: Mbale WS). As with past meetings, participants' allowances and transportation costs were paid from each WS budget (89% of total expenses). JICA

	supported refreshments only (11% of total expenses).
	• The host RRH director and the HID/MOH expressed their gratitude
	for JICA's continuous support.
Way Forward/	• The main resolutions and recommendations proposed in this
Challenges	meeting are as follows:
	1) A short visiting tour to the host RRH will be included in future
	meeting programs.
	2) Follow the progress on the renewal of maintenance contracts for
	the RRHs' oxygen plants.
	3) Plan to procure the testing and calibration equipment/tools
	donated by the Project for all WSs.
	4) Continue lobbying to increase the WS budget.
	5) Support for securing work space including new construction to
	the four WSs that lack workspace (Moroto, Mubende, Masaka
	and Naguru).
	6) Consider a comprehensive maintenance contract for newly
	procured ICU equipment in all RRHs.
	7) The next meeting will be hosted by Kabale RRH in April 2021.
Awards for the best	workshops from the HID commissioner
1 st place, Fort Portal	WS 2 nd place, Soroti WS 3 rd place, Mbale WS

(3) Training on Electrical Safety, Patient Safety and Maintenance of Dental & Eye Equipment

Related to	Unplanned.
Activity 4-2/4-3/4-4	
Details	 Date and Venue: 15th - 19th February 2021 at Jinja RRH
	• A large tent was set up on the hospital grounds and used for the
	venue in order to ensure better air circulation.
	Target Areas:
	1) Electrical safety and patient safety

	2) Maintenance of the Dental Unit and Dental X-ray Machine3) Electrical and radiation safety testing for dental equipment
	4) Maintenance of Slit lamps
	5) Development of KAIZEN action plans on preventive
	maintenance
	 Participants: 23 engineers and technicians of the WSs
	Facilitators: seven in total
	1) Lecturer, Faculty of Biomedical Engineering, Makerere
	University
	2) Practitioner and specialist in dental equipment
	3) Radiation officer, Atomic Energy Council
	4) Eye surgeon, Jinja RRH
	5) Retired technician, Central WS
	6) 5S Facilitator, Mubende RRH
	7) Senior engineer, HID/MOH
	• Objectives: To learn basic knowledge and skills on electrical
	safety, patient safety and trouble-shooting techniques for
	specific equipment, through lectures, hands-on training and the
	KAIZEN method.
Achievements	• The average test results were 55% for the pre-test and 79% for
	the post-test. The average score rose by 24%, and the
	knowledge and skills of the participants were improved.
	Scores (%)
	Scores (%) ■ Pre-Test (%) A ⊠ Post-Test (%) B 100% 93% 91%
	90% 87% 93% 200 88% 88% 88% 88% 79%
	80% 77% 75% 75% 75% 75% 75% 75% 75%
	50% +
	30%
	50% 60% 43% 67% 53% 65% 60% 50% 51% 42% 65% 55% 62% 51% 36% 67% 68% 49% 55% 60% 48% 41% 55% 0% 12 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Averag
	Participants
	• The capacity of the HID/MOH, one of the goals of Output 4, was
	• The capacity of the HID/MOH, one of the goals of Output 4, was
	also reinforced. The reason why is that this training was not

	originally planned; however, it was organized by the HID/MOH							
	to raise safety awareness and to address the rising demand for							
	equipment maintenance during the COVID-19 pandemic.							
	 Regarding the budget, despite delays in disbursement from the 							
	MOH, the Ugandan side was able to cover 71% of the total cost.							
	This is one of the outcomes of strengthening ownership and							
	budget management by the HID/MOH and the Central WS.							
Way Forward/	• After the training, each trainee was assigned the following							
Challenges	activities in order to put the obtained knowledge and skills into							
	practice:							
	1) Conduct a feedback session to share the training materials							
	and acquired knowledge with other technicians.							
	2) Choose three pieces of medical equipment and develop the							
	Standard Operating Procedures (SOPs) for them.							
	3) Carry out basic maintenance with newly learned skills							
Lecture, Dental Unit	Hands-on practice, Slit lamp Group photo at Jinja WS							

(Other activities)

- [ME] The JICA Expert supported the selection of two candidates (one female and one male) for the JICA online training "Medical Equipment Management and Maintenance", which was held from February to March 2021.
- [ME] Logistical support for supervision and monitoring of ICU equipment installation and training in the RRHs (the MOH covered the entire cost of 6,879,000 UGX; JICA did not pay anything.)

1-3 Achievement of Output

1-3-1 Summary of Achievements

Output 1: Due to the COVID-19 pandemic, all JICA Experts returned to Japan in February 2020 and have not been able to return to Uganda since. The MOH has stated that one of its important policies is patient safety. In this extension phase, it was understood through PI that 5S-KAIZEN is an important factor in patient safety. It has been decided to place 5S-KAIZEN in

the mainstream of Quality Improvement Framework & Strategic Plan 2021/2025 (QIF&SP) for quality of care.

Output 1								
The support/supervision system for health	infrastructure management of all the RRHs is							
strengthened in the MOH.								
Current Indicators	Achievements							
1-1								
The Project Steering Committee meeting	The Steering Committee meetings were							
is conducted every three months.	conducted approximately every three months.							
	Detailed dates are as follows:							
	1) 29th May 2018							
	2) 17th September 2018							
	3) 27th November 2018							
	4) 2nd February 2019							
	5) 22nd July 2019							
	6) 7th August 2020							
	Due to the spread of COVID-19, the workload							
	of the department in charge of covering							
	medical facilities nationwide increased, and it							
	has been difficult to hold a meeting with the							
	departments related to the project.							
1-2								
The results of integrated support	From November to March, during the absence							
supervision conducted by Project	of the JICA Experts, supervision was carried							
Implementation Teams, and the next	out by the MOH staff.							
quarter action plan developed from these								
results, are shared and approved at every								
Project Steering Committee meeting.								
1-3								
The roadmap for incorporating the Project	As a result of Uganda making COVID-19							
activities into the policy and systems of	infection control its top priority, not much can							
MOH is established and implemented by	be expected in terms of the budget allocation							
the Project Steering Committee.	to Project activities. However, the 5S-CQI							
	approach was incorporated into the new							
	Quality Improvement Framework and							
	Strategic Plan (2021-2025).							

1-4	
The Project activities are successfully	Expenses related to 5S activities were
incorporated into the Ministerial Policy	included in each RRH's activity budget.
Statement of Ministry of Health.	

Output 2: Since the 5S evaluation of RRH has not been conducted as of March 2021, the indicators for Output 2 will be updated after the completion of evaluation.

[Project Implementation Team: 5S-CQI-TQM] Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.

Current Indicators	Achievements
2-1	
Score of Module 1 (Leadership) and 6	The MOH collected data from 10 target hospitals.
(Health Infrastructure) Health Facility	The scores will be shared with the JICA Expert
Quality of Care Assessment program	soon after their analysis.
(HFQAP) Facility Assessment Tool	
- All RRHs mark (i) 5 points out of 8 as	
full marks for module 1 and (ii) 6 points	
out of 10 as full mark for module 6.	
2-2	
Score of modified 5S M&E Sheet in 5S-	Nine out of 16 target hospitals reached the target
CQI-TQM Guidelines	of 60%: Arua, Entebbe, Jinja, Kabale, Masaka,
- All RRHs mark 33 points out of 54 as	Mbale, Mbarara, Mubende and Naguru. (See
full mark at least two consecutive years.	Figure 1)

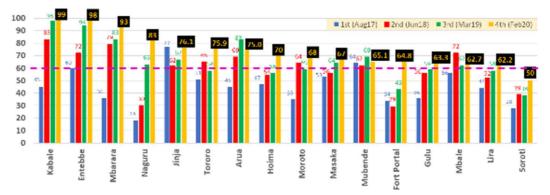


Figure 1: The results of 5S M&E by hospitals (As of February 2020)

Output 3: Due to the COVID-19 pandemic, supervision has not been carried out in the past eight months. However, the management of the target hospitals have a deep understanding of

UT activities, and the RWS is cooperative. Therefore, sustainability of the activities can be expected.

The indicators will not be updated this term.

[Project Implementation Team: User Train	ning (UT)]								
Proper utilization of medical equipment the	hrough UT is improv	ved in	all RRHs.						
Current Indicators	Achievements								
3-1									
There are at least two regional User	The number of Us	The number of User Trainers is shown below*:							
Trainers at all RRHs.	Hospital Na	ame	No. of User Trainers	5					
	Arua		2						
	Fort Portal		2						
	Gulu Hoima		2						
	Jinja		2						
	Kabale		2						
	Lira		3						
	Masaka		2						
	Mbale		2						
	Mbarara		2						
	Moroto		2						
	Mubende Naguru		2						
	Soroti		3						
	Entebbe		3						
	Total	33							
	*As of the end of A	April 20	020						
3-2									
The number of UT conducted by	The number of UT	-							
regional User Trainers is more than	Hospital name	No.	Hospital name	No.					
three per year in every region.	Arua Fort Portal	4	Mbale Mbarara	5 2					
	Gulu	3	Moroto	3					
	Hoima	3	Mubende	7					
	Jinja	4	Naguru	3					
	Kabale	9	Soroti	10					
	Lira	4	Entebbe	4					
	Masaka	5							
*For the period from July 2019 to April 2020									
3-3									
The average percentage of medical	Baseline: 5.1%								
equipment in status B at all RRHs is not	Current data: 2.05	5%							
higher than 4%.									

Output 4: In this period, various regular activities were carried out (as frequently as before the COVID-19 pandemic) with the strong initiative of HID/MOH counterparts and in close collaboration with the JICA Experts. For example, 1) two rounds of support supervisions for the WSs, 2) one WS Performance Review Meeting at Moroto, and 3) one wide-range training on patient safety, equipment maintenance and KAIZEN practice were carried out. These activities helped to raise awareness and improve the technical and managerial capacity of the engineers/technicians working at the medical facility.

In addition, the most significant activity during this period was the procurement of 15 items of testing/calibration equipment which will be used to ensure the safety of medical equipment, which was delivered within five months from the planning stage. Testing/calibration equipment is used to check the accuracy of a wide range of medical equipment and make any necessary adjustments. This was a particularly timely donation given the increasing demand for maintenance of equipments used for COVID-19 critical care treatment.

Along with the achievements and inputs, the Project activities corresponded with the improvement of WS maintenance and management capacities, which aligns with the goal of Output 4.

The WS Performance review meetings have been put in place as the main platform for discussing key issues of medical equipment management among the HID/MOH, the WSs, the RRHs' top management and the implementing partners as related to activities 4-5 and 4-6. Most of the meeting expenses are paid by each WS, and the host of the meetings is rotated among the WSs/RRHs, thus ensuring a sustainable system even after the JICA project ends.

[Project Implementation Team: ME]						
ME and management capacity of WSs are strengthened.						
Current Indicators	Achievements					
(1) The average increase of scores	Average increase of scores of the past ten training					
between the pre-test and post-test	sessions: 28.9% (The target was achieved.)					
is at least 15%.						
(2) The average of percentage of	Baseline: 22.1%					
medical equipment in status C	End line: 10.1% (Achieved)					
and status E at all RRHs is not						
higher than 15%.						

1-4 Achievement of the Project Purpose

During the initial Project period (~ June 2020), small CQI and KAIZEN cases were developed at some target facilities. In addition, performance indicators in terms of equipment maintenance were achieved through the maintenance of WS inventory data and the activities of User Trainers. During the extension period, using the knowledge and skills learned through PI, some QC stories

related to health infrastructure management are starting to be implemented based on the results of problem analysis at the RRHs.

Regarding Patient Safety, 3 RRHs (Kabale, Entebbe and Naguru) are expected to utilize the tools of CQI (KAIZEN) and the implementation of small CQI (KAIZEN) to help develop a culture of safety for patients and staff.

Current Indicators	Achievements
(1) CQI Process or Quality Control	· Nineteen cases of CQI process are being
(QC) Story	implemented at Kabale RRH, and six were
-The number of cases of CQI	completed.
Process or QC Story amounts to	•Three cases of CQI Process are being carried
more than three.	out at Entebbe RRH.
	•Two cases are being implemented at Fort Portal
	RRH.
	 Three cases are being implemented at Hoima
	RRH.
	•Two cases are being implemented at Soroti RRH.
(2) Good practice of small CQI	At least one case of small CQI was practiced at 12
-All RRHs have at least one good	of the 16 target hospitals: Entebbe RRH, Gulu
practice of small CQI.	RRH, Jinja RRH, Kabale RRH, Masaka RRH,
	Mbale RRH, Mbarara RRH, Moroto RRH,
	Mubende RRH, Naguru RRH, Soroti RRH and
	Tororo GH.
(3) The average of percentage of	Baseline: 65.1%
medical equipment in status A at	End line: 83.5%
all RRHs is higher than 70%.	
(4) Supervisions on 5S, UT, and ME	Integrated supervision of three components of
which is integrated into the system	health infrastructure management was conducted.
of MOH in a consolidated way are	Supervisions were implemented 15 times, in
implemented more than XX times.	November 2018 (1), February 2019, March 2019
	(2), April 2019 (1), May 2019 (2), July 2019 (1),
	August 2019 (1), October (1) and November 2019
	(1), May 2020 (2), June 2020 (1), July 2020 (1) and
	Nov-Dec 2020(1).

1-5 Relationship between Project Achievements and COVID-19

The RRHs, which are the Project's targeted sites, have been managing and treating COVID-19 patients and critically ill patients. When the COVID-19 pandemic started, new ICUs were

established and equipped as designated COVID-19 isolation and treatment centers.

The challenge is how to effectively utilize limited resources (for example, healthcare workers, infrastructure, and medical equipment) to achieve maximum outcomes in the fight against COVID-19.

The Project outcomes have comprehensively contributed to tackling the above challenge in the RRHs as follows.

- The component on 5S-CQI (KAIZEN)-TQM (Output 2) gave RRH staff members the skills to improve their work environment, optimize work processes and solve small problems/issues. In particular, the 5S ZONING method was introduced in a hospital (Entebbe RRH) to identify safety spaces for COVID-19 patients, general patients, and medical personnel, in order to prevent nosocomial infections. It also standardized the handling of COVID-19 patients to protect the safety of non-COVID-19 patients and medical personnel.
- The component on User Training of medical equipment (Output 3) allowed nurses to operate the equipment properly, reduce mishandling, and revitalize unused equipment.
- The component on medical equipment maintenance (Output 4) contributed to an increase in the ratio of equipment being used at the RRHs, through institutionalizing support supervision, performance review meetings, technical trainings, equipment inventory analysis, etc.
- Some of the equipment in the ICU and operating rooms need to be strictly controlled for operation and data accuracy. There is a plan to set up the testing and calibration centres in the core WSs, and the Project carried out the procurement of testing and calibration equipment for this purpose.

1-6 Changes of Risk and Actions for Mitigation

After being required to leave Uganda due to the COVID-19 pandemic, none of the JICA Experts have returned as of March 2021. However, communication tools such as SNS (e.g., WhatsApp), YouTube and Zoom enabled the Project to implement activities such as the PI on ME management and patient safety.

1-7 Progress of Actions Undertaken by JICA

- (1) The procurement of 15 items of testing and calibration equipment for 15 WSs was speedily executed to ensure the safety of medical equipment used to fight COVID-19. The equipment, shown below, can be used for quality control and preventive maintenance of a wide range of medical equipment.
- (2) The JICA Experts supported the following items:

1	Equipment planning (items, quantity, target facilities, application of each piece of equipment, etc.)	Nov. 2020
2	Preparation for draft specifications and pre-quotation for budget planning	Nov. 2020
3	Support for JICA's internal approval	Dec. 2020
4	Evaluation of offers from local distributors of the equipment.	Dec. 2020
5	The contract signing between the JICA Uganda Office and the supplier (Mark Biomedical Ltd.)	24th Dec. 2020
6	Monitoring of the procurement schedule	JanMar. 2021
7	Preparation for on-site inspection, handover and end user trainings	FebMar. 2021
8	Remote support for on-site inspections	9th & 22nd Mar. 2021
9	Preparation for handover ceremony and training (scheduled in April)	MarApr. 2021

- The above items 1) through 5) were completed in about two months, facilitated by the smooth communication among HID/MOH counterparts, JICA Headquarters, the JICA Uganda Office and the JICA Experts. The contract for equipment procurement between JICA Uganda and the supplier was signed on 24th December 2020, and set the time of delivery as before 16th March 2021. The contract price was 1,724,941,200 UGX (approx. 50 million yen).
- Regarding item 8), two accessories were missing in the first inspection. Since those deliveries were scheduled for early April, the deadline was extended by an amendment of the contract.
- Regarding item 9), both the handover ceremony and training are being planned and are expected to be held in April.
- The remaining work (as described below) will be handled and completed by the JICA Experts, who are scheduled to return to Uganda in early April:
 - 1) Confirmation of the receipt of the missing accessories.
 - 2) Planning and coordination of the handover ceremony.
 - 3) Supervision of the training.
 - 4) Equipment handover support to 15 WSs.
 - 5) Promoting the establishment of calibration centres at Kabale, Fort Portal, Mbale, Gulu and Central WSs.

ID	Description	Bland	Model	Total								Cen							
				Qt'y	Arua	Gulu	Lira	Kabale	Hoima	Mubende	Moroto	Soroti	Mbale	Masaka	Fort Portal	Jinja	Mbarara	Naguru	Central Workshop
1	Maintenance tool kit, Biomedical	-	-	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
2	Automated electrical safety analyzer	Fluke Biomedical	ESA615-06-UK, with ANSUR software	6						1	1	1		1				1	1
3	Portable oxygen analyzer	Fluke Biomedical	MaxO2 + AE	2									1						1
4-A	Vital Signs (NIBP, SpO ₂ , ECG) simulator with software	Fluke Biomedical	ProSim 8 + ProSim SPOT, with ANSUR software	2															2
4-B	Vital Signs (NIBP, SpO ₂ , ECG) simulator without	Fluke Biomedical	ProSim 8 + ProSim SPOT	4		1		1					1		1				
5	Clamp meter with temperature probe	Fluke Industrial	62MAX+/323/1AC Kit	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
6	Ventilator/Anaesthesia (Gas Flow) analyzer	Fluke Biomedical	VT650/ ACCU LUNG II	6		1		1					1		1				2
7	Battery tester	Fluke Biomedical	BT520	6		1		1					1		1				2
8	Multi-DC regulated power supply, 12/24/48V	B&K Precision	8600	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
9	Infusion pump analyzer	Fluke Biomedical	IDA-1S	6		1		1					1		1				2
10	DC regulated power supply, DC to DC convertor	B&K Precision	1672	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
11	Ultrasound transducer leakage tester	Fluke Biomedical	ULT800K-CUST2	2															2
12	Defibrillator Analyzer	Fluke Biomedical	Impulse 6000D-02	6		1		1					1		1				2
	Megger tester (Insulation Multimeter)	Fluke Industrial	1587 FC	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	3 Phase sequence tester	B&K Precision	302	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
15	ESU (Electro-surgical unit) analyzer	Fluke Biomedical	QA-ES MK III-02-UK	2															2
			TOTAL	138	6	11	6	11	6	7	7	7	12	7	11	6	6	7	28

1-8 Progress of Actions Undertaken by the Government of Uganda

(1) Since February 2020, the MOH has been prioritizing activities related to COVID-19 measures. However, despite the spread of COVID-19 infection, the MOH continued local activities and communicated with the Japanese experts even when they were absent. The MOH paid a total of 41% of the activity funds during this time.

Date		MOH Activities		Venue/Target	M	ЭН	Japan	Total	
Da			Activities	venue/raiget	Allowand	e/others	Allowance	/others	TOLAI
Oct		HID	Printing the WS Operation Manual (400 copies) and SOPs booklet (200 copies)	Kampala	0	0%	10,920,000	100%	10,920,000
2020	Nov	SCAPP	7th QI Conference Abstract Revew Meeting)	Mukono	0	0%	30,595,410	100%	30,595,410
	Nov	HID	Support Supervision	Workshops	3,900,000	67%	1,884,000	33%	5,784,000
	Dec	SCAPP	7th QI Conference	Kampala	0	0%	4,480,000	100%	4,480,000
	Dec	HID	26th Workshop Performance Review Meeting, September 2020	Moroto	29,050,000	89%	3,595,000	11%	32,645,000
	Jan	HID	Supervision and Monitoring of ICU Equipment Installation and User Trainings in RRHs	15 RRHs & 2 Other Hospitals	6,879,800	100%	0	0%	6,879,800
2021	Jan	HID	Assessment of Funcionality of Non-Philips Imaging Equipment in preparation of maintenance contract	27 HFs (6 RRHs, 9 GHs, 8 HCIVs and 4 HCIIIs)	8,279,800	100%	0	0%	8,279,800
	Feb	HID	Training on ME maintenance, safety and KAIZEN practices, 5 days	Jinja RRH	18,235,000	71%	7,359,000	29%	25,594,000
	Mar	HID	Support Supervision	Workshops	3,900,000	67%	1,918,300	33%	5,818,300
	Mar	SCAPP	4th M&E (MOH, JICA, Facilitators)	16 facilities	0	0%	39,597,000	100%	39,597,000
					70,244,600	41%	100,348,710	59%	170,593,310

(2) **1-9 Progress of Environmental and Social Considerations (if applicable)** None.

1-10 Progress of Considerations on Gender/Peacebuilding/Poverty Reduction (if applicable) None.

1-11 Other Remarkable/Considerable Issues Related to/Affecting the Project (such as other JICA Projects, Activities of Counterparts, Other Donors, Private Sectors, NGOs, etc.)

- (1) The Project for the Improvement of Regional Referral Hospitals in Northern Uganda is a grant aid Project run by the Japanese government. This Project aims to strengthen hospital functionality by constructing facilities and providing medical equipment to hospitals (Arua, Gulu and Lira RRH) in northern Uganda, and to improve the quality of and access to health services. JICA signed a grant agreement with the Government of Uganda to provide grant aid of up to 2.86 billion yen for this Project on 26th April 2018. The target facilities of the grant aid Project include the RRHs. The Project is expected to create a positive influence on health service delivery in the hospitals and motivate hospital staff to improve their workplace environment. Construction work on these three hospitals started in June 2019. The construction work was suspended from March 2020 due to COVID-19, but resumed in March 2021.
- (2) Regional Health Integration to Enhance Services (RHITES) is a 5-year Project that has been operating since 2017, funded by the United States Agency for International Development (USAID). RHITES supports the Government of Uganda and key stakeholders

to increase the availability and utilization of high-quality health services. The purpose of this Project is to secure services to support the design and implementation of comprehensive, integrated investment in health, especially at the regional level, for HIV/AIDS and nutrition assistance in the entirety of Uganda. In terms of Quality Improvement, the achievement of outcomes in the Project target facilities will be accelerated through human resource development done by RHITES.

(3) The Korea Foundation for International Healthcare (KOFIH) is a public affiliated organization of the Ministry of Health and Welfare of the Republic of Korea. KOFIH has been active in Uganda since 2017, implementing various projects, including establishing an emergency medical service system and community health system with the MOH. KOFIH targets the Bukomansinbi district and Masaka region. In the target area of KOFIH, the equipment and technology provided will contribute to improving the skills of the staff members in the project's target facilities.

2 Delays of Work Schedule and/or Problems

2-1 Details of the causes

- (1) The following activities have been postponed due to the COVID-19 crisis:
 - Approval and printing of the User Training guidelines and manuals by SMC and TMC
 - Regular holding of the WS Performance Review Meeting
 - Support supervision
 - CQI training
 - Incident Report training

JICA experts provided guidance for understanding CQI during their absence in Uganda and used the PI method to foster awareness that leads to patient safety, so that they can start CQI training and Incident Report training immediately after returning to Uganda.

(2) Delay of the assessment of target facilities by the Health Facilities Quality Assessment Program (HFQAP)

The MOH conducted a HFQAP assessment for 1,989 health facilities in 74 out of 127 districts (58.3%), including 10 hospitals out of 16 target facilities in 2020.

3 Modification of the Project Implementation Plan

The MOH and JICA agreed to extend the Project period for one year from July 2020.

II. Project Monitoring Sheet I & II

Attachments:

- I. Project Monitoring Sheet I
- II. Project Monitoring Sheet II

End

Project Monitoring Sheet I

Project Title:	Project on Improvement of Health Service through Health Infrastructure Management (II)
Implementing agency:	Standards, Compliance, Accreditation and Patient Protection Department, Directorate of Health Governance and Regulation, Ministry of Health (MOH) (5S-CQI-TQM)
	Clinical Services Department, Directorate of Curative Services, MOH (Utilization of Medical Equipment)
	Health Infrastructure Department, Directorate of Strategy, Policy and Development, MOH (Maintenance of Medical Equipment)
Target Group:	(1) Phase 1 targeted hospitals: Mbale Regional Referral hospital (RRH), Masaka RRH, Entebbe RRH, Hoima RRH, Kabale RRH, Arua RRH, Lira RRH, Moroto RRH, Mukuju HC IV, To
	(2) Phase 2 targeted hospitals: Soroti RRH, Jinja RRH, Gulu RRH, Fort Portal RRH, Mbarara RRH, Mubende RRH, Naguru Referral Hospital
Period of Project:	July 2016- July 2021
Target Site:	Republic of Uganda

Narrative Summary	Objectively Verifiable Indicators	Achievement
Quality of health care services at all the RRHs in Uganda is improved.	 Clients' satisfaction level is improved to the target level. (XX) Clients' waiting time of patients for consultation, testing, clinical examination, and prescription of drugs are reduced XX% Maintenance cost regarding medical equipment is decreased in XX%. 	

Project Purpose

Project Purpose		
Health infrastructure management at all the RRHs in Uganda is strengthened with the initiatives of MOH.	 (1) CQI Process or QC Story The number of cases of CQI Process or QC Story amounts to more than three. (2) Good practice of small CQI All RRHs have at least one good practice of small CQI. (3) The average of percentage of medical equipment in status A at all RRHs is higher than 70%. (4) Supervisions on 5S, UT, and ME which is integrated into the system of MOH in a consolidated way are implemented more than XX times. 	 (1) 19 cases of CQI Process implemented and 6 were con Kabale RRH. 3 cases of CQI being carried out at Entebbe 2 cases are being implement Portal RRH. 3 cases are bein implemented at Hoima RRH. being implemented at Soroti (2) At least one case of smal practiced at 12 out of 16 targ (3) 83.5% (average of 14 RR (4) Joint supervision of 3 con concerning health infrastruct management was conducted
Output 1		
1. [Project Steering Committee] Supporting/supervising system for health infrastructure management of all the RRHs is strengthened in the MOH.	 The Project Steering committee meeting is conducted every three months. The results of integrated support supervision conducted by Project Implementation Teams and the next quarter action plan developed from these results are shared and approved at every Project Steering Committee meeting. The roadmap for incorporating the Project activities into the policy and systems of MOH is established and implemented by the Project Steering Committee. The Project activities are successfully incorporated into the Ministerial Policy Statement of Ministry of Health. 	were conducted 6 times durin to August 2020. (2) From March 2020 to Marc

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Tororo GH

nt	Remarks
as are being completed at QI Process are be RRH. ented at Fort eing H. 2 cases are ti RRH. all CQI was rget hospitals. RRHs) components cture ed 15 times.	
e meetings ring May 2019 arch 2021, IICA Experts	
eak, t by the MOH	
naking COVID- priority, not erms of the t activities. On iivities are vision in each	
M were Quality nd Strategic	

Output 2		
2.[Project Implementation Team: 5S-CQI-TQM] Resource management and quality improvement activities are strengthened through CQI approach in all RRHs.	 (1)Score of module 1 (Leadership) and 6 (Health Infrastructure) HFQAP Facility Assessment Tool All RRHs mark (i) 5 points out of 8 as full mark for module 1 and (ii) 6 points out of 10 as full mark for module 6. (2)Score of modified 5S M&E Sheet in 5S-CQI-TQM Guidelines All RRHs mark 33 points out of 54 as full mark at least two consecutive years. 	(1) MOH collected data from hospitals, and the score will the Japanese side after their (2) Nine out of the 16 target reached the target: Arua, En Kabale, Masaka, Mbale, Mb Mubende and Naguru.
Output 3		
3.[Project Implementation Team: User Training] Proper utilization of medical equipment through UT is improved in all RRHs.		 There are a total of 33 re Trainers(at least two regiona per RRH) at 15 RRHs. 4.6 times (average numb at 15RRHs). 2.05% (average of 14 RF
Output 4		
4.[Project Implementation Team: ME maintenance] ME maintenance and management capacity of workshops (WS) are strengthened.	 The average increase of scores between the pre-test and post-test is at least 15%. The average of percentage of medical equipment in status C and status E at all RRHs is not higher than 15%. 	(2) 10.1% (14 RRHs, as of F
Activities	Input	
1-1 Establishment of foundation for the Project and implementation	The Japanese side	
1-1-1 Establish Project Steering Committee	 Dispatch of Experts Chief advisor / QI Management System 	
1-1-2 Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	2) 5S-CQI-TQM	
1-1-3 Develop Terms of Reference (TOR) for Project Steering Committee and Project Implementation Teams and action plans for implementation of the Project	 3) Utilization of Medical Equipment 4) Maintenance of Medical Equipment 5) Project Coordinator/ Training Management 	
1-1-4 Conduct baseline survey	2. Machinery and equipment	
1-2 Support Supervision on health infrastructure management	1) Necessary supplies for 5S-CQI-TQM to target hospitals and	
1-2-1 Review and revise existing supervision system and tools through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-CQI-TQM facilitators at national and regional levels	MOH headquarters 2) Testing and calibration tools and equipment etc. 3. Allocation of operational costs for project activities	
	-	
1-2-2 Direct integrated support supervision, mentoring and coaching on health infrastructure management as CQI practice integrating 5S, UT and ME	4. Training in Japan and/or third countries	
integrating 5S, UT and ME	4. Training in Japan and/or third countries	
 integrating 5S, UT and ME 1-3 Project implementation, monitoring and evaluation and institutionalization 1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being 	4. Training in Japan and/or third countries	
 integrating 5S, UT and ME 1-3 Project implementation, monitoring and evaluation and institutionalization 1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being 		
integrating 5S, UT and ME 1-3 Project implementation, monitoring and evaluation and institutionalization 1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle 1-3-2 Conduct a meeting to review the established system in MOH 1-3-3 Make use of review of activity 1-3-2 for institutionalization of support supervision systems and methodologies		
integrating 5S, UT and ME 1-3 Project implementation, monitoring and evaluation and institutionalization 1-3-1 Organize meetings for Project Steering Committee every three months and review whether action plan is being implemented based on PDCA cycle		

2.[Project Implementation Team: 5S-CQI-TQM]	
2-1 Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	
2-2 Define criteria for national show case of 5S-CQI-TQM and review national show case(s)	
2-3 Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels	
2-4 Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.	
2-5 Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	
2-6 Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	
2-7 Conduct 5S-CQI-TQM training to target facilities based on the results of the baseline survey, with a focus on CQI	
2-8 Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs, periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and ME in collaboration with UT ar ME activities under the direction of Project Steering Committee Activity 1-2-2	nd
3.[Project Implementation Team: User Training]	
3-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	
3-2 Conduct refresher training of user trainers in the previous Project phase.	
3-3 Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals	
3-4 Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-T and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2	'QM
4.[Project Implementation Team: Maintenance]	
4-1 Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	
4-2 Conduct leadership and management training for workshop managers including inventory data analysis	
4-3 Conduct training for workshop staffs on maintenance of basic medical equipment	
4-4 Conduct training for core staff of workshops in first line maintenance of specialized medical equipment	
4-5 Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops	
4-6 Support Workshops to develop a system for sharing knowledge and skills	

Attachment I

Project Monitoring Sheet II (Revision of Plan of Operation)

								Proj	ect N	lonite	oring \$	Shee	t II	(Rev	visior	n of I	Plan o	of O	perati	on)											Attachment II
																														Version. 10 Dated 21st May 2021	
Proje	ct Title: Project on Improvement of	of Hea	lth Se			ugh He	alth I			e Man	ageme																				
nputs		Plan Actual		2	2016 III	IV		20)17 │ Ⅲ	IV		2	018	IV	/ 1		2019 II	ш	IV	-	20)20 	IV		2	2021	IV	- в	lemarks		toring
Expert															,														loniano	Issue	Solution
Chief Ad	visor/QI Management System	Plan Actual					_													_								-		None.	None.
Assist Ch	nief Advisor/QI Management System	Plan Actual																										-		None.	None.
5S-CQI-1	rqm ①	Plan Actual																										1		None.	None.
5S-CQI-1	rqm (2)	Plan																										1		None.	None.
	n of Medical Equipment	Plan																												None.	None.
Maintena	ince of Medical Equipment	Actual Plan																												None.	None.
	coordinator/Training Management	Actual Plan																												None.	None.
Equipme		Actual																													
Project v administr	ehicles and equipment/materials necessary for the Project	Plan Actual																		_								-		None.	None.
	in Japan							 																			_ : : - · · ·				
		Plan Actual																										-		None.	None.
n-count	ry/Third country Training							- · · · - · · ·	· · ·													1				 	1				
Tanzania	KAIZEN TOT	Plan Actual																										-		None.	None.
A <u>ctiviti</u>		Plan			2016	1 : :)17				018			<u> </u>	2019					020				021	1	Responsit	ble Organization		locus 0
Juteut 1 7	Sub-Activities Project Steering Committee] Supporting/supervisir	Actual	for her	ll alth infra	III	IV	 			IV	l d in the N		III	IV	/		II	III	IV	I	II		IV	I	II	III	IV		-	Achievements	Issue & Countermeasures
	lishment of foundation for the Project and implementation	ig system	i for nea	aith inira	structure	managen	lent of a		is is stre	ngthene	a in the w	ЮП																Japan	Uganda		
1-1-1	Establish Project Steering Committee	Plan																										Expert(s)	All concerned Department	None.	None.
		Actual Plan																										F 7	Members of MOH All concerned		
1-1-2	Establish Project Implementation Teams for 5S-CQI-TQM, UT and ME	Actual																										Expert(s)	Department members of MOH	None.	None.
	Develop terms of reference (TOR) for Project Steering	Plan																													
1-1-3	Committee and Project Implementation Teams and action plans for implementation of the Project	Actual																										Expert(s)	Steering Committee	None.	None.
		Plan																											laure la servicia de términa		
1-1-4	Conduct baseline survey	Actual																										Expert(s)	Implementation Team	None.	None.
1-2 Suppo	ort Supervision on health infrastructure management													:	<u>. .</u>																
	Review and revise existing supervision system and tools																														
1-2-1	through enrichment of checklists of HFQAP(Health Facility Quality of Care Assessment Program) and allocation of 5S-																											Expert(s)	Steering Committee	None.	None.
	CQI-TQM facilitators at national and regional levels	Actual																											Committee		
																														Integrated supervision of	
																														three components of health infrastructure management	
		Plan																												was conducted. Supervisions were	
	Direct integrated support supervision, mentoring and coaching																													implemented 15 times, in	
1-2-2	on health infrastructure management as CQI practice																											Expert(s)	Steering Committee	February 2019, March 2019	None
	integrating 50, 500 intering and maintenance																													(2), April 2019 (1), May 2019 (2), July 2019 (1), August	
		Actual																												November 2019 (1), May	
																														2020 (1) and Nov-Dec	/
1-3 Projec	t implementation, monitoring and evaluation and institutionalization																													2020(1).	
																												1			
1-3-1	months and review whether action plan is being implemented																							\vdash				Expert(s)	Steering Committee	None.	None.
				+							\square													\vdash							
1-3-2	Conduct a meeting to review the established system in MOH	Plan																										Expert(s)	Steering	None.	None.
	Pinet integrated support supportion, metricing and coaching in feature anagement integrated support supportion, metricing and maintenance Pinet integrated support supportion in the feature anagement integrated support suppor																														
		Plan																										1	Oho ani		
1-3-3	through the Project, and make reflections if necessary to the	Actual																										Expert(s)		None.	None.
	IVIII II SIEFIAI POICY Statement	Actual		+																		┢┝┻╋		┢╼╾	+	+-				7th QI Conference was held	
																														on 2-4 December 2020 at Kampala both physically and	Ł
		Plan																												virtually. Prof. Handa made a keynote	
1-3-4	Organize study tours and QI Conference to share good practice and lessons learned on health infrastructure management	9																										Expert(s)	Implementation	speech entitled "What we can do for strengthening	None.
1-3-4	compiling 5S, UT and ME																Lyber(2)	Team	foundations of safety culture of hospitals?". Kabale RRH	NUTC.											
		Actual				orally presented 6 topics and Entebbe RRH made a	A																								
																														poster presentation.	
1-3-5	Conduct an end-line survey on health infrastructure	Plan																										Expert(s)	Implementation	None.	None
1-3-5	management, including 5S-CQI-TQM, UT and ME	Actual																										Expert(s)	Team		None.

Attachment II

Activitie	85	Plan		20	016			20)17			2	2018		T	2	2019		Т	2020		1	20	21		Deer	la Onnan'		
	Sub-Activities	Actual	I	11		IV		II		IV	I			IV	I			IV	I	II	III IV	I			IV	Responsib	le Organization	Achievements	Issue & Countermeasures
Output 2 [P	roject Implementation Team: 5S-CQI-TQM] Resou	1	gement a	nd quali	ity impro	ovement a	octivities	are stren	gthened	through	CQI appr	oach in	all RRHs				1 : :	1 : :	1 : :	T :: T :		1 : : 1		1 : :		Japan	Uganda		
2-1	Develop and/or update guidelines, manuals, handbooks, monitoring and supervision tools, and facilitators guide	Plan Actual																								Expert(s)	Implementation Team	"KAIZEN Handbook", a teaching material to implement KAIZEN, was finalized.	None. "KAIZEN Handbook" is going to be printed in Apr.
2-2	Define criteria for national show case of 5S-CQI-TQM and review national show case(s)	Plan Actual																								Expert(s)	Steering Committee	Data are being collected for 5th M&E of 5S performance in Feb-Mar.	
2-3	Clarify qualification, role and responsibility of 5S-CQI-TQM facilitators at national an regional levels	Plan Actual																								Expert(s)	Steering Committee	None.	None.
2-4	Conduct leadership and management training based on the results of the baseline survey for management staff of targeted facilities, etc.	Plan Actual																								Expert(s)	Implementation Team	None.	None.
2-5	Conduct facilitators' training for 5S-CQI-TQM facilitators at national and regional levels with a focus on CQI	Plan Actual																								Expert(s)	Implementation Team	None.	None.
2-6	Strengthen function of quality improvement team (QIT) and work improvement team (WIT) in the target facilities	Plan Actual																								Expert(s)	Implementation Team	Programmed Instruction using SNS dialogues and YouTube video lectures was conducted in Oct-Feb for KAIZEN to address the following 2 topics: (1) Medical equipment management Among 30 participants from Fort Portal RRH, Hoima RRH and Soroti RRH, 19 completed. (2) Patient safety 17 out of 31 participants from Entebbe RRH, Kabale RRH and CUFH Naguru completed the course.	In spite of difficulty of internet connection, many participants actively addressed dialogues and exercises. It is necessary to visit each facility to supervise and advise activities.
2-7	Conduct 5S-CQI-TQM training to target facilities based on the	Plan																								Expert(s)	Implementation	Same as 2-6.	None.
	results of the baseline survey, with a focus on CQI Conduct support supervision, mentoring and coaching on WIT/QIT function, development of action plans by WITs,	Actual Plan																									Team	Same as 2-6.	None.
2-8	periodic meetings by QIT, implementation of 5S-CQI-TQM activities with proper usage and maintenance of ME in collaboration with UT and ME maintenance activities, etc. as mentioned in 1-2-2	Actual																								Expert(s)	Implementation Team		
Output 3 [P	roject Implementation Team: User Training] Prop	er utilizati	ion of me	dical eq	uipment	t through	UT is imp	proved in	all RRH															1 : =		I	1	I	1
3-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	Plan Actual																								Expert(s)	Implementation Team	The draft guideline was submitted to SMC.	Approval of the draft guidelines from SMC to TMC has been postponed due to delays in procedures within the ministry.
3-2	Conduct refresher training of user trainers in the previous Project phase	Plan																								Expert(s)	Implementation Team	None.	None.
3-3	Conduct Training of Trainers (TOT) for user trainers of the phase 2 target hospitals	Actual Plan Actual																								Expert(s)	Implementation Team	None.	None.
0.	Conduct support supervision, mentoring and coaching on UT for proper usage and ME in collaboration with 5S-CQI-TQM and ME activities aiming at CQI under the direction of Project Steering Committee Activity 1-2-2	Plan Actual																								Expert(s)	Implementation Team	None.	None.
Output 4 [P	roject Implementation Team: ME maintenance] M	E mainten	nance and	manag	ement c	apacity of	f worksh	ops (WS)	are stren	ngthened							<u> </u>	<u> </u>		1 : : • :		<u></u>		1 : :				I	
4-1	Update and develop manuals, handbooks, guidelines, and monitoring tools for dissemination as necessary	Plan Actual																								· Expert(s)	Implementation Team	None.	None.
4-2	Conduct leadership and management training for workshop managers including inventory data analysis	Plan Actual																								Expert(s)	Implementation Team	A comlehensive training on patient safety, equipment	None.
4-3	Conduct training for workshop staff on maintenance of basic medical equipment	Plan Actual																								Expert(s)	Implementation Team	maintenance and KAIZEN practice was held at Jinja in February 2021, and 23 engineers/technicians were	None.
4-4	Conduct training for core staff of workshops in first line maintenance of specialized medical equipment	Plan Actual																+	+							Expert(s)	Implementation Team	certified.	None.
4-5	Strengthen capacity of Central Workshop and Infrastructure Department to support Regional Workshops	Plan																								Expert(s)	Implementation Team	2 rounds of support supervision and a WS Performance Review Meeting were conducted. 15 items of testing/calibration equipment for 15 WSs were procured under JICA Emergency Assistance scheme to fight against COVID-19.	None.
4-6	Support Workshops to develop a system for sharing knowledge and skills	Plan Actual																								Expert(s)	Implementation Team, all WS managers	The WS Performance Review Meetings and routine support supervisions were institutionalized as the platform for sharing knowledge and skills. KAIZEN on medical equipment management for Hoima, Fort Portal and Soroti RHs have been implemented since Oct. 2020.	None.

Duration / Phasing	Plan Actual																					-		
	Totau			1	1 1 1	 1 i i	1 : :	1 3 3	 	1 3 8	1 : :	1		1 - :	1 : :	 1 1 1	1 : :		1 2 2	1 3 3	1 3 3			
Monitoring Plan	Plan Actual		20)16 III	IV	20)17 III	IV	20	018 III	IV		20)19 III	IV	20)20 	IV	2	021 III	IV	Remarks	Issue	Solution
Nonitoring	710100	•				 			 			<u> </u>				 			 					
Joint Coordinating Committee	Plan Actual																					-		
Set-up the Work Plan of Operation	Plan Actual																							
Submission of Monitoring Sheet	Plan Actual																					-		
Monitoring Mission from Japan	Plan Actual																					-		
Joint Monitoring	Plan Actual																					-		
Post Monitoring	Plan Actual																							
eports/Documents																								
Progress report	Plan Actual																							
Project Completion Report	Plan Actual																					-		
ublic Relations																								
	Plan Actual																							
	Plan Actual																					4		