



# **Ministry of Water and Environment**

## **Joint Technical Review (JTR) 2018**

### **Undertaking No. 6**

**Establish data management systems for  
WfP facilities to enhance Utilization and  
Sustainability by the end of FY 2017/18**

**Eng. Twinomujuni John**

# Introduction

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- Establishment of data management systems for WfP facilities is the first step towards/enhancing Utilization and Sustainability of WfP facilities.
- Data management systems ensure availability of parameters such as storage capacity, functionality status, management, amount of water being utilized for all WfP facilities for better planning.

# Progress in Achieving Outputs

Planned output	Parameters	Status
<b>Review of the Existing WfP Database</b>	Review of the available manuals	Done
	Consultation with WfP Staff, MIS Staff and IT Management	Done
	Identification and documentation of Gaps	Done
<b>Procurement of Database Development Consultant</b>	Development of Terms of Reference (ToRs)	Done
	Invite Proposals	Done
	Evaluation of Bids	Done
	Award of Contract	Done
<b>Inclusion of all new Districts in the WfP Database</b>	Identification of new Districts	Done
	Addition of Identified Districts in WfP Database	Done
	Add a feature in the data to add future new Districts (Incase of creation of new Districts)	Ongoing

## Cont'd Progress in Achieving Outputs

Planned output	Parameters	Status
<b>Upgraded Data Entry Form with all the agreed new data parameters as stated by the WfP Staff</b>	Development of a template to be discussed by Stakeholders	Done
	Consultation with Stakeholders on data collection entry form	Done
	Development of final data collection form with agreed to parameters	Done
<b>Dynamic User management by the Database Administrators</b>	Create different roles in the database for Users, data entrants and administrators	Done
<b>Data extraction of all Database Outputs in form of Excel Sheets, PDF Files and Images</b>	Programming data entry form to be online	Done
	Programme data entry mechanisms	Done
	Programme the Reports	Ongoing
	Programme a mechanism for data extraction (Data reports)	Ongoing

# Cont'd Progress in Achieving Outputs

Planned output	Parameters	Status
<b>Web maps presented as shade maps and plot maps viewable and downloadable</b>	Upload shape files of Districts and Sub-counties from UBOS	Continuous and ongoing
	Programming the Web Interface to display the maps with data	Ongoing
<b>Support WfP Department with data entry, database management, fixing error bugs and database access</b>	System Documentation (User manuals, final report)	Done
	Training the User Department (WfP) Staff	Done
	Follow up Support for Three (03) months	Pending

## **Related activities / processes**

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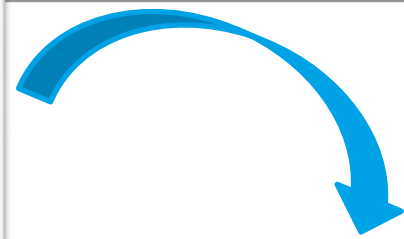
- Data collection and update done annually.
- Continuous System data update with UBOS and District Planners to update the administrative units of Districts, Sub-counties, Parishes and Villages.

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## Dashboard

Administrative Querytool <

Facility Records <

Administrative Querytool <

Administrative Querytool <

### REPORTS

Facility Records <

Real Time Reports <

Annual Reports <

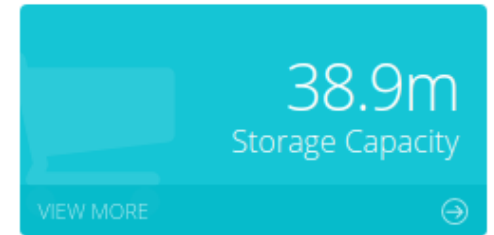
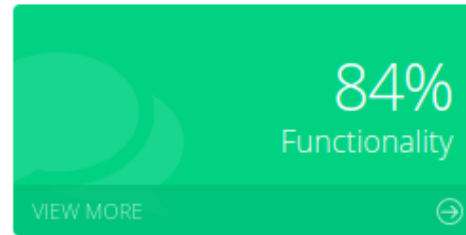
Admin Lists <

### SETUPS

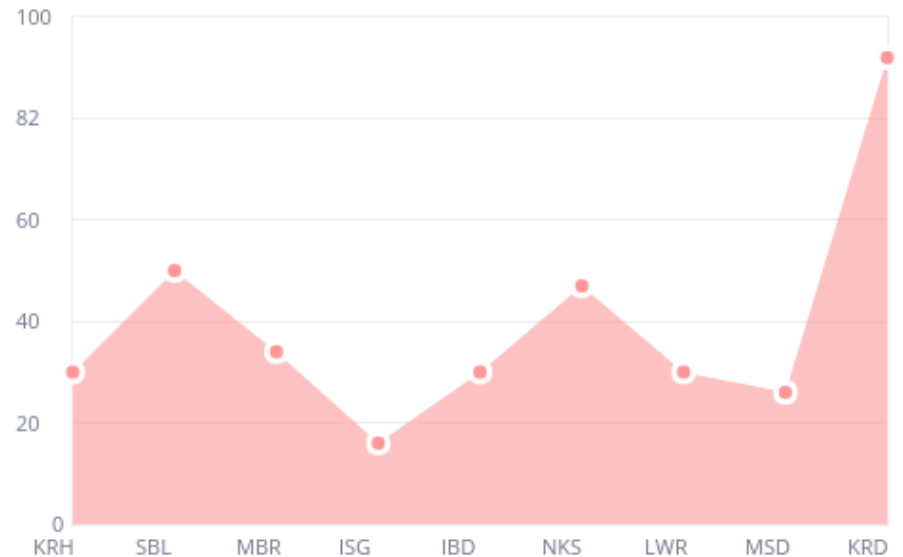
Admin Setup <

Setup Lists <

User Management <



### FUNCTIONALITY PER DISTRICT annual [View ALL](#) [View Record](#)



## Login page

# Facility Query tool

MINISTRY OF WATER AND ENVIRONMENT  
REPUBLIC OF UGANDA

Home • Querytool • Facility Querytool

Dashboard

DATA ENTRY/UPDATE

- Data Entry
- Update Records

QUERYTOOL

- Facility Querytool
- Administrative Querytool

REPORTS

- Facility Records
- Real Time Reports
- Annual Reports
- Admin Lists

Facility Querytool

Export to Excel

ID	Facility Type	District	County	Parish	Zone
3	VT	Luwero		Kibanyi	36N
8	IS	Kalangala		Bujumba	36N
14	VT	Luwero		Kibirizi	
2	VT	Luwero		Kibanyi	36N
7	IS	Mpigi	Mawokota	Luwala	36N
13	VT	Luwero	Bamunanika	Kibirizi	
18	IS	Ssembabule	Lwemyaga	Lubaale	36N
1	VT	Luwero	Bamunanika	Kibanyi	36N
6	IS	Mpigi	Mawokota	Luwala	36N

Sort Ascending

Sort Descending

Columns

Filter

Search

- Select All
- Luwero
- Kalangala
- Mpigi
- Ssembabule
- Mukono
- Rakai
- Kiboga

0 items selected



# Key Challenges

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- The System can only be accessed within MWE.
- Ever splitting Administrative units (Districts, Sub-counties, Parishes and Villages).
- Rigid and Slow data collection tools (Data collection forms).

# Way Forward

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- Constant Update of Administrative Units with UBOS and District Planners.
- There is need to adopt modern data collection technology (mobile apps).

# Small Scale Irrigation Development



# Cont'd Small Scale Irrigation Development



# Cont'd Small Scale Irrigation Development



# Cont'd Small Scale Irrigation Development



# Cont'd Small Scale Irrigation Development



# Cont'd Small Scale Irrigation Development





# Cont'd Small Scale Irrigation Development



**END**

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**THANK YOU**