

**REPUBLIC OF MALAWI
MINISTRY OF AGRICULTURE, IRRIGATION
AND WATER DEVELOPMENT (MoAIWD)**

**PROJECT FOR NATIONAL WATER
RESOURCES MASTER PLAN
IN THE REPUBLIC OF MALAWI**

FINAL REPORT

Volume IV: Photo Book

DECEMBER 2014

**JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)**

**CTI ENGINEERING INTERNATIONAL CO., LTD
ORIENTAL CONSULTANTS CO., LTD.
NEWJEC Inc.**

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COMPOSITION OF FINAL REPORT

Volume I : Summary

Volume II : Main Report

Volume III : Data Book

Volume IV : Photo Book

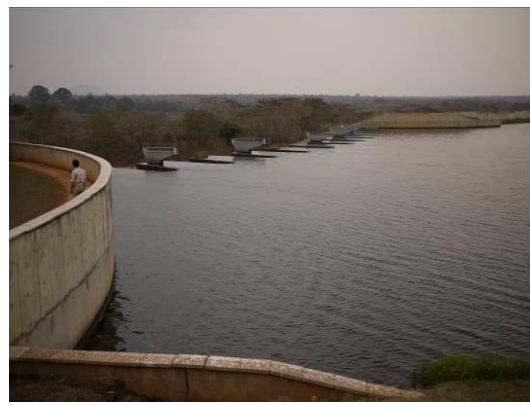
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Urban and Rural Water Supply, Sanitation/Sewerage



Kamuzu I Dam



Kamuzu II Dam



Water Treatment Plant in Lilongwe



Mulunguzi Dam



Mulunguzi Dam



Water Treatment Plant in Zomba

Urban and Rural Water Supply, Sanitation/Sewerage



BWB Mudi Dam



BWB Walkers



NRWB



Dam and Intake Tower



River Intake (Mountainous Area)



**Problem with Sand Sedimentation around
the Intake in Mzimba**

Urban and Rural Water Supply, Sanitation/Sewerage



Lake Intake Conduit (Senga Bay)



Intake Pump (Senga Bay)



Rapid Sand Filtration



Rapid Sand Filtration



Slow Sand Filtration



Granular type of Sodium hypochlorite

Urban and Rural Water Supply, Sanitation/Sewerage



Pressure Tank Filtration



Distribution Tank and Elevation Tank



Distribution Tank and Elevation Tank



Distribution Tank and Elevation Tank



Gravity Fed Water Supply (Mulanje)



Gravity Fed Water Supply (Mulanje)

Urban and Rural Water Supply, Sanitation/Sewerage



Gravity Fed Water Supply



Ngwere Gravity Fed Scheme



Ngwere Gravity Fed Scheme



Boreholes



**Groundwater Borehole with Submersible
Motor Pump**



Balaka

Urban and Rural Water Supply, Sanitation/Sewerage



**Broken Automatic Recorder for
Groundwater Leveling at GN215 in 2012**



Zomba Sewerage Scheme



BCC Sochi WWTP



**Improved Latrine Reconstructed by the
Nkhawanga Project**



LCC Kauma WWTP



Central Hosrital Sewage Treatment Pond

Agriculture



Maize at Mbabzi Estate



Tobacco at Mbabzi Estate



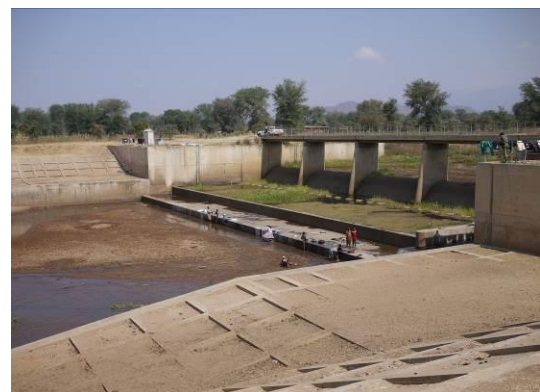
Tobacco at Mbabzi Estate



Reservoir at Mbabzi Estate



Reservoir at Mbabzi Estate



Irrigation Intake at Bwanje Irrigation Scheme

Agriculture



Irrigated Paddy at Bwanje Irrigation Scheme



Irrigation Canal at Bwanje Irrigation Scheme



Dambo in Bua Basin



Dambo in Bua Basin



Dwangwa Intake for Estate



Centerpivot at Illovo Sugarcane Estate

Agriculture



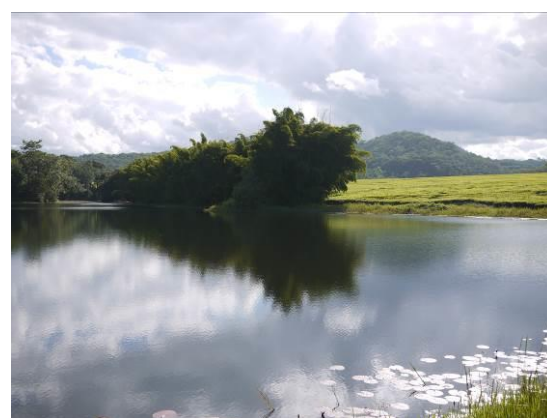
Intake Pump at Illovo Sugarcane Estate



Irrigation Canal at Illovo Sugarcane Estate



Kawalazi Estate



Kawalazi Irrigation Pond



Mulanje Estate



Mulanje Irrigation Intake

Agriculture



Mulanje Irrigation Pump



GBI Project at Lingadzi



Test-Drip-Irrigation in the Office of EPA



Treandle Pump at Nsandula Reservoir



Nsandula Reservoir



Nyemba Reservoir

Hydropower



Kamuzu Barrage at Liwonde



Nkula Reservoir



Nkula Reservoir and IntakeA



NkulaA



NkulaA PowerStation



**Sediment Suction Machine
at the Nkura Reservoir**

Water Related Disaster, Soil Erosion and Watershed Conservation



Songwe River (Middle Stream)



Flood Inundation Area in Malawi



Flood Mark near the Ruw River



Flood Mark (Village near the Songwe River)



Flood Mark near the North Rukuku River



Sediment Suction Machine
at the Nkura Reservoir

Water Related Disaster, Soil Erosion and Watershed Conservation



**Place to Discharge Sediment Suction
at Nkura Dam**



**Dust Remover at Intake Point
at Nkura Dam**



Removal of Plants at Nkura Dam



Removed Plants at Nkura Dam



Excavator at Nkura Dam



Dzalanyama Forest Reserve

Water Related Disaster, Soil Erosion and Watershed Conservation



Dzalanyama Forest Reserve



Dzalanyama Forest Reserve



Charcoal Conveyor at Dzalanyama Forest



Charcoal Pit at Dzalanyama Forest



Dzalanyama Forest



Illegally Logging at Dzalanyama Forest

Meteo-Hydrological Stations and Rivers



Chitedze Meteorological Station



Anemometer at Chitedze Meteorological Station



Anemoscope at Chitedze Meteorological Station



Rain Gauge at Chitedze Meteorological Station



Rain Gauge at Chitedze Meteorological Station



Evaporation Pan at Chitedze Meteorological Station

Meteo-Hydrological Stations and Rivers



Thermometer and Psychrometer at
Chitedze Meteorological Station



Actinometer at Chitedze Meteorological
Station



Thermometer in Surface Soil at Chitedze
Meteorological Station



Automatic Observation Equipment at
Chitedze Meteorological Station



Rusa River (WRA 5) in Rainy Season
(March, 2013)



Rusa River (WRA 5) in Dry Season
(October, 2013)

Meteo-Hydrological Stations and Rivers



5F1 Station in Rusa River (15th Jun 2013)



5F1 Station in Rusa River (12th Oct 2013)



5D2 Station in Bua River



5D1 Station in Bua River



5D2 Station in Bua River (23th Mar 2013)



5D2 Station in Bua River (12th Oct 2013)

Meteo-Hydrological Stations and Rivers



5D1 Station in Bua River (15th Jun 2013)



5D1 Station in Bua River (12th Oct 2013)



5D1 Station in Bua River (15th Jun 2013)



5D1 Station in Bua River (12th Oct 2013)



5C1 Station in Bua River (15th Jun 2013)



5C1 Station in Bua River (12th Oct 2013)

Meteo-Hydrological Stations and Rivers



Lingadzi River



Shire River at Mangochi



Lake Malawi



Lake Malombe



Diamphwe River



Linthipe River

Capacity Development, Meetings



Measurement Exercise 1



Measurement Exercise 2



Groundwater Assessment 1



Groundwater Assessment 2



GIS Data Management Training



GIS Data Management Training

Capacity Development, Meetings



Rainfall Runoff Modeling



Water Utilization Modeling



1st Steering Committee (8th Oct 2014)



1st Technical Committee (30th Jan 2014)



2nd Technical Committee (27th Mar 2013)



3rd Technical Committee (30th Jan 2014)

Capacity Development, Meetings



2nd Steering Committee (8th Oct 2014)



2nd Steering Committee (8th Oct 2014)



**Seminar on Draft Final Report
(10th Oct 2014)**



**Stakeholder Meeting at Mzuzu
(8th Sep 2014)**



**Stakeholder Meeting at Zomba
(10th Sep 2014)**



**Stakeholder Meeting at Lilongwe
(12th Sep 2014)**