



REPUBLIC OF GHANA

MINISTRY OF WATER RESOURCES, WORKS AND HOUSING

**SECTOR STRATEGIC MEDIUM
TERM DEVELOPMENT PLAN
2014-2017**

SEPT. 2014

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LIST OF ACRONYMS

AESL	Architectural and Engineering Services Limited
APR	Annual Progress Report
ARC	Architects Registration Council
ATMA	Accra-Tema Metropolitan Area
CBOS	Community Based Organizations
CONIWAS	Coalition of NGOs in Water and Sanitation
CSOs	Civil Society Organizations
CWSA	Community Water and Sanitation Agency
DA	District Assembly
DMTDP	District Medium Term Development Plan
DPs	Development Partners
DRH	Department of Rural Housing
EIA	Environmental Impact Assessment
EPA	Environment Protection Agency
FBOS	Faith Based Organizations
FD	Finance Directorate
GAD	General Administration Directorate
GOG	Government of Ghana
GPRS	Growth and Poverty Reduction Strategy
GWCL	Ghana Water Company Limited
HD	Housing Directorate
HFC	Home Finance Company
HIPC	Highly Indebted Poor Country
HRDMD	Human Resource Development and Management Directorate
HSD	Hydrological Services Department
IAU	Internal Audit Unit
IAA	Internal Audit Agency
IGF	Internally Generated Fund
IWRM	Integrated Water Resources Management
LGA	Local Government Act

M&E	Monitoring and Evaluation
MDAs	Ministries, Departments and Agencies
MDBS	Multi-Donor Budget Support
MDGs	Millennium Development Goals
MELR	Ministry of Employment and Labour Relations
MESTI	Ministry of Environment, Science, Technology and Innovation
MGCSP	Ministry of Gender, Children and Social Protection
MLGRD	Ministry of Local Government and Rural Development
MLNR	Ministry of Lands and Natural Resources
MoE	Ministry of Education
MoF	Ministry of Finance
MoH	Ministry of Health
Mol	Ministry of Information
MOJAGD	Ministry of Justice and Attorney General Department
MTEF	Medium Term Expenditure Framework
MWRWH	Ministry of Water Resources, Works and Housing
NDPC	National Development Planning Commission
NGOS	Non-Governmental Organizations
OHCS	Office of the Head of the Civil Service
PNDCL	Provisional National Defense Council Law
PPBMED	Policy Planning, Budget, Monitoring and Evaluation Directorate
PRI	Private Research Institutions
PRSC	Poverty Reduction Support Credit
PSHLSB	Public Servant Housing Loan Scheme Board
PSRED	Private Sector Real Estate Developers
PWD	Public Works Department
RBOS	River Based Organizations
RCD	Rent Control Department
RSIMD	Research, Statistics and Information Management Directorate
SHCL	State Housing Company Limited
SMTDP	Sector Medium - Term Development Plan

SSNIT	Social Security and National Insurance Trust
STMA	Sekondi-Takoradi Metropolitan Area
SUF	Slum Upgrading Facility
SWP	Sector Work Plan
TAS	Traditional Authorities
TDC	Tema Development Corporation
WD	Water Directorate
WRC	Water Resources Commission

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EXECUTIVE SUMMARY

The Ministry of Water Resources Works and Housing (MWRWH) is a statutory constitutional institution and a Central Management Agency of the Government of Ghana. It is mandated to **formulate and implement policies and strategies** to accelerate the development of the **Water, Works and Housing** sub-sectors of the economy of Ghana.

The **2014-2017 MWRWH Medium Term Development Plan** derives its **policy base** from the **thematic focus, broad policy objectives**, and sector specific **strategies adopted** from **The National Medium Term Development Policy Framework/GSGDA II** that are relevant to the mandate and functions the Ministry. The Plan translates the relevant **broad sector policy objectives and strategies of GSGDA II** into **target specific sector policies** and **“drivers”** for implementation.

Sector MTDP Purpose

The Plan is intended to serve as a **“development compass”** that will direct/**guide** the **development interventions** of MWRWH Headquarters and the various Directorates and Divisions. The overall purpose is to **enhance operational effectiveness and efficiency** of MWRWH towards the **achievement of stated sector policy objectives and time-bound targets** that are in line with the **broad medium -term goals and objectives of GSGDA II**.

The operational focus of this Plan is on **deepening the implementation of identified sector specific strategies** that have **high potency** of resolving the **development challenges** facing the **Water, Works and Housing** sub-sectors of the economy.

MTDP Structure

In line with NDPC sector Planning Guidelines, the 2014-2017 MWRWH Sector MTDP is structured into 7 inter-related chapters: (1) Profile and Background, (2) Sector Development Priorities and key issues, (3) Medium Term Development Goal, Objectives and Strategies, (4) Development Programmes and Sub-programmes, (5) Annual Action Plan, (6) Monitoring and Evaluation Framework, and (7) Communication Plan.

In consonance with policy objectives and strategies of the **“Infrastructure and Human Settlement and Good Governance”** themes of the Ghana Shared Growth and Development Agenda (GSGDA II), the 2014-2017 MWRWH Sector Medium –Term Development Plan focuses on: (i) promoting **Access to safe, quality and affordable water** to all communities under the goal **“Water for All”**, (b) **reducing the national housing deficit**, and, (c) **improving infrastructure facilities**, (drainage systems and coastal promotion) to protect life and property.

Key Development Issues

The key development issues confronting the Water, Works and Housing sub-sectors of the economy that the Plan seeks to resolve include:

Housing sub-sector

- Huge housing deficit
- Limited use of local building materials for housing construction
- Proliferation of slum development
- Uncoordinated land development
- Poor quality of rural housing
- Weak enforcement of Housing Laws and Regulations
- Lack of a comprehensive spatial policy framework on housing

Water sub-sector

- Inadequate access to quality and affordable water
- Weak water resource management
- Over exploitation of wetland resources
- Increased deforestation in river catchments
- Dwindling water resources
- Water pollution, especially through illegal mining activities
- Excessive siltation of water bodies
- Limited harvesting of water
- Pollution of wetlands due to indiscriminate waste disposal

Works sub-sector

- High exposure of settlements and infrastructure to natural and man-made hazards
- high vulnerability of fishing settlements along the coast-
- Inappropriate design of structures for coastal protection
- Inadequate capacity at the district level to develop emergency response
- Weak management capacity

The interventions to be implemented are meant to resolve the development issues that underpin the achievement of stated medium-term sector ***policy goals, objectives and targets***.

The Communication Plan will **deepen “organic stakeholder collaboration”** and build ownership (collective responsibility) among stakeholders, while the Monitoring and Evaluation Framework serves as a compass that guides Plan implementation and assessment of sector performance over the Plan period.

CHAPTER ONE

PROFILE/CURRENT SITUATION/BASELINE

1.0 Introduction/Background

The Ministry of Water Resources Works and Housing (MWRWH) is a statutory constitutional institution and a Central Management Agency of the Government of Ghana. The Ministry is mandated to ***formulate and implement policies and strategies*** to accelerate the development of the ***Water, Works and Housing*** sub-sectors of the economy of Ghana. The “***development services***” provided by the Ministry are guided by Medium to long Term ***National Development Policy Frameworks*** that prescribe the medium to long term “***growth and development path***” of Ghana.

This 2014-2017 Sector Medium Term Development Plan is intended to serve as a “***development compass***” that will direct/guide the ***operations (development interventions)*** of MWRWH Headquarters and the various Directorates and Divisions under it. The Plan focuses on the ***accelerated development*** of the ***Water, Works and Housing*** sub-sectors of the economy.

The overall purpose of this Plan is to ***enhance operational effectiveness and efficiency*** of MWRWH towards the ***achievement of stated sector policy objectives and time-bound targets*** that are in line with the ***broad medium term policy objectives of GSGDA II***. The operational focus of this Plan is on ***deepening the implementation of identified sector specific strategies*** that have ***high potency*** of resolving the ***development challenges*** facing the ***Water, Works and Housing*** sub-sectors of the economy in the medium to long term.

Although MWRWH has the responsibility for realizing ***planned targets*** and achieving the development results (***outputs and intermediate outcomes***) of this Plan at the terminal point (2017), primary and secondary stakeholders have been identified as “***organic partners***” in the course of Plan implementation. The objective of this organic partnership is to ***enhance sector co-ordination and cross-sector collaboration*** that will promote ***efficiency, effectiveness and measurement for development results*** in the implementation of MWRWH 2014-2017 MTDP.

1.0.1 2014-2017 MTDP Structure.

In line with NDPC sector Planning Guidelines, the 2014-2017 MWRWH Sector MTDP is structured into 7 inter-related chapters as follows:

- Chapter 1: Profile/Current Situation/Baseline
- Chapter 2: Prioritization of development Issues
- Chapter 3: Medium Term Development Goal, Objectives and Strategies
- Chapter 4: Development Programmes and Sub-programmes
- Chapter 5: Sector Annual Action Plan
- Chapter 6: Monitoring and Evaluation

- Chapter 7: Communication Plan

The MWRWH Sector Medium Term Development Plan (2014-2017) contains:

- *2010-2013 MWRWH Sector Performance Review (with focus on **Targets set and Actual Result** as at Dec.2013,*
- *“**adopted sector policy objectives** from GSGDA II ” that underpin the achievement of stated medium term outputs/outcomes for 2014-2017,*
- ***sector specific strategies** (policy drivers) that will be used to realize the expected deliverables (outputs & outcomes/targets) over the Plan period,*
- ***mechanisms** for enhancing institutional capacity to achieve stated medium term policy goals and objectives,*
- ***institutional co-ordination and collaboration mechanisms** for efficient service delivery in Water, Works and Housing sub-sectors of the economy of Ghana.*
- ***operations** (programmes/ Annual Action Plan) that will be implemented,*
- ***an M & E Framework** (with sector specific indicators) for **tracking Plan implementation progress** and for **assessing sector performance** over the Plan period.*
- *institutional arrangement for effective Plan implementation,*
- *Plan implementation collaborators, (**roles and responsibility of primary and secondary stakeholders**), and*
- *2014-2017 **Estimated cost Projections***

1.0.2 2014-2017 MTDP Policy Base

The development of the 2014-2017 Sector Medium Term Development Plan (SMTDP) of the Ministry was based on the **2014-2017 Sector Planning Guidelines** issued by National Development Planning Commission (NDPC) for the preparation of Medium Term Development Plans by Ministries, Department and Agencies (MDAs) in line with the requirement of the **National Development Planning (system Act 1994, Act 480).**

The **2014-2017 MWRWH Medium Term Plan** derives its **policy base** from the **thematic focus, broad policy objectives**, and sector specific **strategies adopted** from **The National Medium Term Development Policy Framework/GSGDA II** that are relevant to the mandate and functions the Ministry. The Plan translates the relevant **broad sector policy objectives and strategies of GSGDA II** into **target specific sector policies** and **“drivers”** for implementation.

The Thematic Focus Areas of the National Development Policy Framework (**GSGDA II**) that guided the development of this Plan are:

- Ensuring and sustaining macroeconomic stability;
- Enhancing Competitiveness of Ghana’s Private Sector;

- Accelerated Agriculture Modernization and Sustainable Natural Resource Management;
- **Infrastructure and Human Settlement;**
- Oil and Gas Development;
- Human Development, Productivity and Employment; and
- **Transparent and Accountable Governance**

“**Infrastructure and Human Settlement and Transparent and Accountable Governance**” themes of GSGDA II have direct links to the **mandate and functions** of the Ministry and therefore form the thematic focus areas of this Plan. However, **cross-cutting issues** relating to *macroeconomic stability, private sector competitiveness, human development and productivity, gender inequality, vulnerability, income poverty, and environment* that have **positive correlation with and underpin** the achievement of stated medium to long term policy objectives of this Plan were considered in the development of **sector specific strategies and operations**.

Other relevant policy documents that informed the development of this Medium Term Plan were:

- The National Housing Policy,
- The National Water Policy, and
- The National Population Policy.

Also, various Government development policy statements on **accelerating result-based improvements** in the **Water, Works and Housing** segments of the economy of Ghana were taken into account in the development of strategic interventions towards the achievement of sector objectives and targets for 2014-2017.

1.0.3 Methodology

In developing the 2014-2017 MWRWH MTDP, the following methods were used:

- *Socio-economic beneficiary Impact Assessment,*
- *Quantitative Policy Analysis,*
- *Development Planning Techniques,*
- *Cluster Analysis,*
- *Causality Tests(Various),*
- *Quantitative Development policy interrogation (iff analysis)*
- *Spatial Development Techniques,*
- *inter-disciplinary development Approach and Result-based Techniques*
- *Sector Capacity Utilization Analysis (institutional & human)*
- *Input-output techniques,*
- *Development prioritization techniques,*
- *Development target setting and performance tracking modelling,*
- *Socio-economic modelling and forecasting techniques*
- *Development prioritization technique,*

○ Sector-Wide Approach

In conducting **MWRWH 2010-2013 Performance Review** (Chapter One), various Causality Tests were performed. The objective was to investigate the ***relevant parameters*** that were responsible for the ***relative development changes*** that occurred between 2010 and 2013 with respect to ***specific policy objectives and the targets set*** for **Water, Works and Housing** sub-sectors of the economy for the period under investigation.

1.2. Profile

1.2.1 Vision

The vision of the Ministry is to be a lead Agency with highly motivated staff ready to provide quality leadership for the sustainable management of the water resources of Ghana, provision of safe and affordable portable water, decent housing and public works for accelerated national development.

1.2.2 Mission

The Ministry exist to ***formulate and implement policies, plans and programmes*** for the sustainable management and accelerated development of ***Water, Works and Housing*** sub-sectors of the economy of Ghana.

1.2.3 Mandate

The core mandate of the Ministry is to:

- formulate and implement policies and strategies to achieve specific short, Medium and Long Term development objectives relating to **Water, Works and Housing sub-sectors** of the economy, and
- co-ordinate all interventions of infrastructure requirements relating to Water Supply and Sanitation, Hydrology and Flood Control Systems, Works and Housing.
- conduct ***Research into Topical issues*** to promote evidence-based decision making on the development of the ***Water, Works and Housing*** sub-sector of the economy.

In carrying out its core mandate, the Ministry aims at achieving the following goals:

- Ensuring sustainable water natural resource use through transparency and Good Governance,
- Accelerated reforestation and plantation establishment for environmental and watershed management and job creation,
- Maximizing national revenue and benefits to rural communities from mineral resource extraction whilst ensuring good environmental stewardship, and
- Promoting a smooth and efficient land Delivery system through partnerships with the private sector.

1.2.4 Functions

In order to achieve Mandate, the Ministry performs the following functions:

- formulate and implement policies and programmes to enhance service delivery in the area of **Water, Works and Housing** to all communities,
- develop sector specific Medium to long term development plans in consultation with NDPC,,
- conduct Research into Topical Issues relating to Water, Works and Housing to provide alternative sector policy guides,
- provide, regulate and facilitate access to safe drinking water, safe shelter, flood control systems, safe sanitation, operational hydrological networks and drainage systems.
- provide, maintain and protect public property and infrastructure.
- collaborate with the private sector in the provision of safe shelter, safe water and safe sanitation,
- promote creative and innovative research in the production and use of improved local building materials.
- co-ordinate all development interventions in the sector, and
- monitor and Evaluate sector performance.
- Establishment of a Functional data base for timely production of sector statistics for evidence-based decision making
- Production of Annual Sector Budgets and Sector Performance Reports

In performing its functions, the operations of the Ministry take into account critical national development issues including the following:

- *Improving the general economic climate*
- *promoting Decentralization,*
- *advancing the course of gender equality*
- *mitigating the negatives effects of climate change*
- *promoting Green Economy*
- *population growth and vulnerability*
- *Science, Technology and Innovation (STI) ,*
- *socio-economic dimensions of national development, and*
- *“spatial perspectives” of physical development*

1.2.5. Divisions and Agencies

The Ministry of Water Resources, Works and Housing comprises:

- Headquarters with eight (8) Directorates and one (1) unit,
- four (4) implementing Departments, and
- five (5) Agencies.

Headquarters

Directorates and Unit

- General Administration (G.A.)
- Policy Planning, Budgeting, Monitoring and Evaluation (PPBME)
- Research, Statistics and Information Management (RSIM)
- Human Resource Development and Management (HRDM)
- Finance Directorate
- Water Directorate
- Housing Directorate
- Works Directorate
- Internal Audit Unit

Departments and Agencies

Housing Sub-Sector

- Rent Control Department (RCD),
- Department of Rural Housing (DRH),
- Public Servants' Housing Loans Scheme Board (PSHLSB),
- Architects Registration Council (ARC),
- Tema Development Corporation (TDC) and
- State Housing Company Limited (SHCL).

Works Sub-Sector

- Hydrological Services Department (HSD),
- Public Works Department (PWD),
- Engineers Council (EC), and
- Architectural and Engineering Services Limited (AESL)

Water Sub-Sector

- Water Resources Commission (WRC),
- Community Water and Sanitation Agency (CWSA), and Ghana Water Company Limited (GWCL).

The specific functions of the Departments and Agencies under the Ministry are ***interrelated***, and ***re-enforce*** each other in the provision of ***goods and services*** relating to **Water, Works and Housing** sub-sectors of the economy. MWRWH Headquarters has an oversight responsibility for the Departments and Agencies under it.

1.3 2010-2013 Sector Performance

1.3.1 Review Objective

The main objectives of the MWRWH 2010-2013 MTDP Performance Review were to:

- determine **Policy Relevance** as basis/ Way Forward for the development of MWRWH 2014-2017 MTDP (i.e to investigate which sector **policy objectives** produced the desirable Development Result over the Plan period),
- investigate the **potency of strategies** used (i.e. strategies that worked well, worked partially, or did not work at all, with respect to time-bound targets set for **Water, Works, & Housing** sub sectors of the economy),
- investigate the extent of realization of targets set and their Implications for the sector and the aggregate economy,
- assess the extent of implementation of the overall 2010-2013 MTDP.
- determine operations (programmes/projects) that are still relevant to be rolled into the 2014-2017 sector MTDP
- evaluate the Cost Effectiveness of 2010-2013 Plan implementation
- draw evidence- based performance conclusions
- document positive/good Plan implementation lessons for replication, and develop mechanisms to resolve challenges encountered over time.

The Performance Review is on the **analysis of the operations** undertaken within four (4) years period with respect to stated policy objectives and targets set.

1.3.2 Review Scope

The **2010-2013 SMTP Performance Review** covered the **analysis** and the **status of implementation of all operations** (Programmes and projects) relating to **Water, Works and, Housing** sub-sectors of the economy for the four year period. The domain was on investigating the relationship between **medium term policy objectives and set targets (outputs & outcomes)** on one hand, and the **Actual Results of operations** on the other hand so as to draw evidence-based development conclusions.

The review process focused on comparing targets set to the Actual Results (outputs and outcomes) realized at the terminal point of the Plan (Dec.2013). Various Causality Tests were conducted to:

- assign reasons for the achievement or non-achievement of medium term development objective and targets,
- determine the potency of policy drivers (strategies) that accounted for the achievement of earmarked RESULTS at the terminal point of the Plan (Dec.2013),
- investigate the overall operational efficiency of the 2010-2013 Plan and
- draw evidence-based empirical development conclusions

1.3.3 Sub Sector Performances (2010-2013)

1.3.3.1 Water Sub-Sector

Under the **Water Sub-Sector**, the policy objectives and strategies focused on ensuring efficient use and sustainable management of water resources for increased access to **safe, adequate and affordable water and water related sanitation facilities** countrywide.

1.3.3.1.1 Water Resources Management

The Ministry collaborated with the Water Resources Commission (WRC) and developed a comprehensive management plan for the establishment of plantations at the various hot spots along the Black Volta River in the Northern Region. Fifteen (15) ha each were also identified in the Densu, Tano and White Volta basins to serve as pilot buffer zone schemes to conserve and preserve degraded water bodies.

A **Flood Early Warning System** was developed and operationalized for forecasting flood levels for the White Volta Basin from the border with Burkina Faso to assist in response and disaster management.

To improve water governance, a Dam Safety Regulation/Guideline was finalized and submitted to the Attorney General's Department. The Regulations is intended to ensure the safety of dams in the country through proper design, construction, operations, maintenance and decommissioning.

As an effective monitoring measure for the usage of water resources, WRC issued licenses for 35 major water users in the mining, domestic/commercial, aquaculture, irrigation and industrial sectors. The Commission also issued licenses to 30 drilling companies.

1.3.3.1.2 Rural Water Supply

With regards to Peri-Urban, Rural and Small Towns Water and Sanitation Project, **300,000** people in **27 districts** in Brong Ahafo Region were targeted to have **improved access** to sustainable water and sanitation services. The project delivered **17 small town piped schemes**, **670** boreholes fitted with hand pumps, **101** institutional latrines, and **20** hand-dug wells as at Dec. 2013.

Under the Northern Region Small Towns Water and Sanitation Project, **125,000 people in 13 districts** along the eastern corridor of the Northern Region were targeted to have **improved access** to sustainable potable water and sanitation services. As at Dec. 2013, four (4) Small Town Water Supply Systems were completed for the inhabitants of Bungbalga and Bungbong in Yendi District, Karaga in the Karaga District and Bunkpurugu in the Bunkpurugu Yonyoo District. The project is still on-going.

Sustainable Rural Water and Sanitation Project

The objective of the Sustainable Rural Water and Sanitation Project was to improve access to water and sanitation for **600,000** people in **66 districts** in Upper West, Upper East, Northern, Brong Ahafo, Central and Western Regions. As at Dec. 2013, only 600 out of the target of **1,200 boreholes** were drilled and awaiting hand pump installation. Contracts for the supply of **1,200 hand pumps** for installation on boreholes the rehabilitation of 400 boreholes in the Northern Region were signed. In 2014, construction works for 480 institutional latrines and 69 mechanized pipe schemes under this project will continue in all the target districts.

Government 20,000 Borehole Project

Under the Government's 20,000 Borehole project, 536 out of 1,115 boreholes were drilled and fitted with hand pumps to serve the identified communities as at Dec. 2013.

Phase 1 of the Tongor-Kpalime Water Supply Project was completed and handed over to serve 13 communities while the on-going North Tongu-Adaklu Anyigbe Water Supply Scheme and Krachi East and West Water and Sanitation Projects would be completed in 2014.

1.3.3.1.3 Urban Water Supply

The Ghana Water Company Limited (GWCL) implemented a number of water delivery projects categorized into four (4) strategic objectives. During 2010-2013 Plan period, the Essakyir Water supply project, Mampong Water supply project, Five Towns (Kibi, Kwabeng, Osenase, Apedwa and Anyinam) Water supply project and the Kumasi Water Supply Additional works were completed and handed over to GWCL. Most of the projects are at various stages of completion:

On-going Projects

Rehabilitation and expansion are on-going for the following projects

- ❖ Kpong Water Supply Expansion Project (40MGD) – works in the final stages of implementation. Project will be completed middle of 2015.
- ❖ Rehabilitation of Pumping Station and construction of potable water production Plant at Kpong (3.3MGD) - Project will be handed over to GWCL by Dec. 2014.
- ❖ ATMA Rurals Water Supply Project (42,000m³/d) – Works divided into North and South to be completed Dec.2014.
- ❖ Wa Water Supply Project (3.3MGD) –project is in the detailed design stage.
- ❖ Urban Water project – program in progress
- ❖ Nsawam Water Supply Project (1.76MGD) - works in progress. Project expected to complete Dec.2014. Additional funding for Phase 2 is being sourced for the rehabilitation of existing Water treatment plant and distribution improvement.
- ❖ Akwatia, Winneba and Akim Oda Water Supply Project – currently in the detailed design stage.
- ❖ Upper East Region Water supply project – Tendering for contractor in progress.
- ❖ Kumawu, Konongo & Kwahu Tafo (Kotoso) Water supply Project – Work in progress.
- ❖ Peri-Urban Study – Physical works are complete. A study is currently underway to select the appropriate model for operating the water scheme.
- ❖ Teshie Desalination (PPP) - implementation of project ongoing
- ❖ Asutsuare Water PPP - negotiations in progress
- ❖ Sogakope - Lome WSP - tendering stage
- ❖ Installation of Prepaid Metering - consultative stage

1.3.3.2 Works Sub Sector

Under the **Works Sub-Sector**, the goal of the Ministry (2010-2013) was to ensure sustainable development of infrastructure facilities relating to flood control systems,

drainage, coastal protection works and operational hydrology. Major operations implemented during the 2010-2013 Plan period included the following

1.3.3.2.1 Storm Water Drainage Works

The Ministry, acting through the Hydrological Services Department undertook the construction of storm water drainage and sanitation works at the following locations:

- Sakaman Drainage works (Lot I, Lot II),
- Nima Drain Extension works,
- Akora River Drainage Works at Swedru,
- Sakumo Lagoon Inlet channel Project,
- Construction of Goaso (Lot I, Lot II, Lot III) and Mim (Lot I) drainage works
- the Kumawu drainage works (Lot I, Lot II)
- Tepa drainage works (Lot I, Lot II),
- Ejura Drainage works (Lot I, Lot II),
- Tamale Drainage works (Lot I, Lot II)
- Winneba Drainage (Lot I, Lot II)
- Onyasia Upstream Drainage,
- Klagoon project, and
- Asankragua works (Lot II, III)

1.3.3.2.2 Coastal Protection Works

A number of coastal protection works aimed at protecting life and property were undertaken. They included:-

❖ Keta Sea Defence Resettlement Housing Programme

The objective of the project was to restore and enhance life and economic activities of the affected inhabitants. Delay in the disbursement of funds affected the commencement of the project. Project is on-going.

❖ Atorkor-Dzita-Anyanui Emergency Sea Defence Works

The Ministry constructed **3.5km** stretch of revetment and groyne system, **2km stretch** of road to protect the residents of Atorkor-Dzita-Anyanui on the Keta Municipality in the Volta Region from the effects of sea erosion.

❖ Ada Sea Defence Works

Construction site offices and four (4) groynes have been completed. Project is about 70% completed.

❖ Sakumono Sea Defence Works Phase II

Project focus is on the protection of 3.50 km protection. Project is at its implementation stage.

❖ Dansoman Sea Defence Project

Procurement processes for the works are completed;

❖ Aboadze Coastal Protection Works

Procurement processes for the works for the construction of the 2km sea defense wall was completed. The Project is in progress to be completed in Dec. 2014.

❖ Ngiresia Emergency Sea Defense

Procurement process for the works are completed, works are in progress and according to schedule. Progress of work at the end of December, 2013 stood at 80% completion.

1.3.3.2.3 National Flood Control Programme

The objective of this programme was to improve sanitation, ensure sustainable environment, and protect life and property. Under the programme, the Ministry undertook channel opening, deepening, widening and de-silting works at the following locations:

Ashongman, Madina Trassaco villas, Dome-Kwabenya, Nungua-Baatsona, Kumasi, Maye Hot, Cape Coast Amanfrom, Agbogba, Pokuase, Taifa, Kasoa, Teshie, Tema New Town, Adenta, Frafraha, Dawhenya, Ashongman, Haatso, Ada, La Abafun, Larteh Akwapim, Kpando, Kasoa Iron City, La Tebuae, Korle-Gonno St. Mary's Area, Abeka La Paz drainage , Anyaa, Oblogo, Mallam, Gbawe, Kwabenya, Sakaman and East Legon Dzorwulu, , Martey Tsuru, Kumasi, Cape coast, Ho, Takoradi, Hohoe, Agormanya, New Edubiase, Kwabeng, Dodowa, Damfa, Pantang

1.3.3.3 Housing Sub-Sector

Available statistics indicates that the Housing deficit in Ghana is about **1.7 million housing units**. To reduce the deficit and accommodate new households, there is the need for an annual delivery of **about 170,000 housing units per year over 10 years**. (2010-2020).

The principal objective of Government is to facilitate access to housing, especially for **low to middle income earners**. To resolve the national housing deficit, the Ministry, in collaboration with key stakeholders, initiated a number of development interventions. At the policy level, the following were produced.

- Draft National Housing Policy,
- Ghana Housing Sector Profile,
- Ghana Building Code and Review of Building Regulations,
- The Establishment of an Engineering Council,
- The Establishment of a Survey Council,
- The Establishment of a Real Estate Agency/ Authority, and
- Proposed Legislation on Condominium Properties.

These **policy and legal** initiatives were meant to support other development interventions that were intended to “**give a frontal attack**” to the increasing housing problem in Ghana.

1.3.3.3.1 Government of Ghana Affordable Housing Programme

The **Affordable Housing Programme of the Government of Ghana** began in 2005. The objective is to provide accommodation for low to middle income workers facing acute housing challenges. The initial target was to provide **100,000 housing units over a 5 year** period, through direct government intervention in partnership with the private sector. The Programmes/projects included the following:

1. Borteyman/Nungua in Accra –commenced in February 2006 and extended in May 2006 to Kpone near Tema,
2. Asokore-Mampong project in Kumasi.
3. Koforidua project - launched in July, 2007
4. Tamale and Wa projects - in September, 2007. However, actual construction commenced in Wa in April 2011.

A number of the housing units have reached advance stages of completion. They currently require only the installation of electrical, plumbing, fixtures and fittings and connection to the mains (i.e. power, water and sewerage system). However, many contractors have failed to deliver on schedule and therefore had their contracts terminated. **Tables 1.1** show selected performance statistics and the status of the Housing Sub-sector

Table 1. 1: Housing Sub-sector: status of Projects

Project Site	No. of stores	No. of Units	Flat Type		Status as @ Dec.2013
			1BR	2BR	
Borteyman	20	1478	734	744	The overall project completion is estimated at 62%. There are 110No. blocks of flats of two (2) and one (1) bedrooms at various stages of completion. 10No. are roofed and painted, 39 No. are roofed and at various stages of completion, 29 No. are at third floor to roof stage, 15 No. are at second floor to third floor stage, 1No. is at first floor to second floor stage, 10 No. are at Ground floor to first floor stage with 6 No. at sub-structural stage.
Kpone	20	1526	614	912	The overall project completion is estimated at 55%. There are 104No. blocks of flats of two (2) and one (1) bedrooms at various stages of completion. 14No. are roofed and painted, 29 No. are roofed and at various stages of completion, 14No. are at third floor to roof stage, 7No. are at second floor to third floor stage, 2No. are at first floor to second floor stage, 17No. are at ground floor to first floor stage with 21No. at sub-structural stage.
Asokore-Mampong	52	1030	342	688	The overall project completion is estimated 61%. There are 77No. blocks of flats of two (2) and one (1) bedrooms at various stages of completion. 34 No. are roofed and at various stages of completion, 8No. are at the Gable stage, 10 No. at the third floor, 8No. are at second floor stage, 8No. are at first floor stage, 9No. are at ground floor and sub-structural stage.
Koforidua	Nil	342	54	288	The overall project completion is estimated at 25%. There are 18No. blocks of flats of two (2) and (1) bedroom. Only 1No. has been roofed with 1No. at the roofing stage. 3No. are at the 3 rd floor formwork and reinforcement and another 3No. at the 2 nd floor formwork and reinforcement. 2No. are at the ground floor columns. 5No. are at the sub-structural level. Work on the access roads is in progress.
Tamale	Nil	200	80	120	The overall project completion is estimated at 29%. There are 10 No. semi-detached blocks of flats with 20No. contractors. 2No. are at roofing level, 5No. are at third floor level, 2No. are at second floor level with 2No. at first floor level. 9No. are at ground floor level. Work on access road is in progress.
Wa	Nil	144	72	72	The overall project completion is 11%. Contractors have been paid mobilization funds and constructional work commenced only in April 2011.
Total	92	4720	1896	2824	

1.3.4 Selected Performance Results

Table 1. 2: Selected Sub sector performance RESULTS at a Glance: (PLAN TARGETS & RESULTS)

SUB-SECTOR	Target	Actual Result Dec.2013	Remarks
Water	<u>Peri-Urban, Rural Water</u> Improve access to water & sanitation services for 300,000 people in 27 districts in Brong Ahafo Region	<ul style="list-style-type: none"> ▪ 17 small town piped schemes ▪ 670 boreholes ▪ 101 latrines ▪ 20 hand dugouts 	Low inflow of financial resources
	<u>Northern Region Small Towns Water and Sanitation Project</u> Provide access to portable water & sanitation services to 125.000 people in 13 districts	4 small town water supply system completed at -Bungbalga and Bungbong (Yendi Dist) -Karaga (Karaga Distrct) - Bungbong (Bungbong Yonyoo Dist)	
	<u>Sustainable Rural Water and Sanitation Project</u> Provide 1,200 boreholes to improve access to water and sanitation for 600,000 people in 66 districts (Upper West, Upper East, Northern, Brong Ahafo Central and Western Regions)	600 boreholes drilled and awaiting hand pump installation.	Low inflow of financial resources
	<u>Government 20,000 Borehole Project</u> - drill 1,115 boreholes by Dec. 2013	- 536 drilled and fitted with hand pumps	Low inflow of financial resources
	<u>Tongor-Kpalime Water Supply Project</u> - 13 Communities to benefit from Phase 1	Project completed & handed over to 13 communities	
	<u>Urban Water Supply</u> Provide access to portable water to Essakyir, Mampong, Five Towns (Kibi, Kwabeng, Osenase, Apedwa and Anyinam) Water supply projects	Essakyir, Mampong, Five Towns (Kibi, Kwabeng, Osenase, Apedwa and Anyinam) Water supply projects and Kumasis Water Supply Additional Works were completed and handed over to GWCL	
Works	Complete on-going costal protection works and drainage system to protect life and property.	A number of coastal protection works and drainage system were completed Others are still on-going	Low inflow of financial resources
Housing	Complete affordable housing unit for low and middle income earners.	A total of 4,720 housing units were at various stages of completion as at Dec. 2013	Weak public-private sector collaboration

Table 1. 3: Status of Implementation of Programmes

POLICY OBJECTIVES	OUTPUTS OR PROGRAMMES	INDICATOR	TARGET	LEVEL OF ACHIEVEMENT				REMARKS
				2010	2011	2012	2013	
1. Ensure efficient management of water resources	Development and Adoption of a harmonised national buffer zone policy	No. of pilot scheme identified	3 in the Densu, Tano and White Volta Basins	-	1	1	1	
	Development of a national rainwater harvesting strategy	To be completed by	December, 2013	-	-	-	December	Rainwater harvesting strategy in place
	Hydrogeological assessment of the northern regions of Ghana	To be completed by	December, 2013	-	-	-	December	New borehole siting techniques developed
	Set up of river basin secretariats and management boards	No. of river basin secretariats and management boards	3 Additional river basin secretariats and management boards	1	1	1		
	Introduce climate change adaptation into water resources management in the three northern regions	To be completed by	December, 2013	-	-	-	December	Adaptation measures to cope and improve livelihoods enhanced for local communities
	Improving water governance in the White Volta Basin (with Burkina Faso) and Restoring and protecting the Black Volta river (with Cote d'Ivoire)	To be completed by	December, 2013	-	-	-	December	Buffer zones established and cooperation enhanced at the national and local levels with Burkina Faso and Cote d'Ivoire
	Nationwide water quality monitoring	No. of Additional water quality stations established	20	5	5	5	5	Additional 20 water quality stations established and monitoring ongoing
	Improve hydrological network and data collection	To be completed by	December, 2013	-	-	-	December	Additional 3 networks established for data collection
	Review of Water Use Regulations.	To be completed by	December, 2013	-	-	-	December	Revised Water Use regulations forwarded to AG's Dept.

POLICY OBJECTIVES	OUTPUTS OR PROGRAMMES	INDICATOR	TARGET	LEVEL OF ACHIEVEMENT				REMARKS
				2010	2011	2012	2013	
	Development of Dam Safety Regulations	To be completed by	December, 2013	-	-	-	December	Dam Safety Regulations finalised for adoption by Parliament
	Development of national and river basin IWRM Plans	To be completed by	December, 2013	-	-	-	December	National and 3 additional river basin (Pra, Tano and Dayi) IWRM plans developed
	Training of targeted groups in water resources management - MMDAs, Media, Police, Women, etc.	To be completed by	December, 2013	-	-	-	December	120 police prosecutors, 40 NGO water managers, and over 100 District Environmental officers trained in water resources management
	Development of Flood Early Warning System for the White Volta Basin	To be completed by	December, 2013	-	-	-	December	A flood early warning system in place for forecasting, warning and crisis management
Accelerate the provision of affordable and safe water	Drill 7,240 boreholes for rural communities nationwide.	No. of boreholes constructed	7,240	265	716	661	436	2013 figures are up to Sept 2013
	Construct 4,479 Hand-Dug Wells (HDW) for rural communities nationwide.	No. of boreholes constructed	4,479	5	24	17	0	-Community Demand for HDWs have dipped -2013 figures are up to Sept 2013
	Construct 593 pipe systems for rural communities nationwide.	No. of boreholes constructed	593	75	23	15	40	2013 figures are up to Sept 2013
Housing/ Shelter Promote functional	Review of existing policy documents on housing for accelerated housing delivery.	No. of Policy Documents reviewed	1	Draft form	Draft Form	Draft Form	Final Draft	Draft review policy has been developed and submitted

POLICY OBJECTIVES	OUTPUTS OR PROGRAMMES	INDICATOR	TARGET	LEVEL OF ACHIEVEMENT				REMARKS
				2010	2011	2012	2013	
relationship among towns, cities and rural communities.	Organize workshop & Seminars for probationer Architects, Building, and Planning Inspectors and other relevant bodies and information dissemination to general public.	No. of Probationer Architects trained	Probationer Architects – 270	51	83	68	79	Policy to compel all Architectural practitioners to be released for refresher courses Review of all Architectural Acts
		No. of Building Technicians / Inspectors trained	Building Technicians / Inspectors- 120	32	45	-	24	The seminars for technicians in 2012 did not come on due to lack of funds and other logistics for the workshop
	Organize Professional Qualifying Examination and Induction ceremony for Newly qualified Architects	No. of examination and induction ceremonies organised	4	1	1	1	1	Target Met
	Organise Training for ARC Staff	No. of Staff Trained	8 staff trained	1	1	8	8	Annual target should be set and increase staff level of ARC
Increase access to safe ,adequate and affordable shelter	Acquisition of 2,000 housing units by public and civil servants facilitated by PSHLSB.	No. of Housing Units completed by beneficiaries	600 (150 each year)	52	53	101	10	More funds needed to meet target
	Rent Act 220 (1963) reviewed and a draft rent bill developed to meet best practices	2010	2013	Draft Rent bill developed	Proof reading of the draft bill	Proof reading of the draft bill	Final draft submitted to the ministry	Review of Rent Act is long overdue
	Training Needs of all Rent Officers identified and carried out.	Training manual developed Workshop organized	30 Rent Officers	-	-	-	15	Increase number of Rent Officers
	Increase access to Rent Control Offices in MMDAs	Number of rent control offices	15	2	4	2	8	Due to lack of office accommodation the

POLICY OBJECTIVES	OUTPUTS OR PROGRAMMES	INDICATOR	TARGET	LEVEL OF ACHIEVEMENT				REMARKS
				2010	2011	2012	2013	
	with high rent related issues	opened						dept. are compelled to rent high cost of private facility thereby flouting of rent laws
Increase access to safe and adequate shelter	Rehabilitate, refurbish and maintain Prestige Buildings countrywide.	Number renovated	128	58	58	58	114	Low inflow of funds
	Rehabilitate, refurbish and maintain 1,400 Government Bungalows countrywide.	Number renovated	400	43	57	94	131	Low inflow of funds
Accelerate the provision and improve environmental sanitation.	Rehabilitate 50 sewage treatment plants countrywide.	Number of treatment plants rehabilitated	15	1	1	1	1	Low inflow of funds
Minimize the impact of disasters and develop adequate response strategies	500 Government properties connected to the central sewage system.	Number of Government properties connected.	100	-	-	-	-	No budgetary allocation
	Re-channel, upgrade and maintain 60km of the country's storm drainage system.	Kilometers of storm drains rechanneled, upgraded and maintained.	60	-	54	54	79	Target exceeded due to adequate inflow of funds
	Construct the Keta Sea Defence Resettlement Housing project.	No. of housing units i.e., types A, B, C to be constructed.	836	353	447	562	584	Delay in release of funds affecting timely delivery.
Promote and facilitate private sector participation in disaster management (e.g flood control systems and coastal protection).	Reclaim and restore the Korle Lagoon.	Korle lagoon reclaimed and restored	1	-	-	-	-	No budgetary allocation
	Drainage master plan developed for all districts.	Number of master plans developed	50	-	-	-	-	No budgetary allocation
	Establish flood forecasting and warning systems for all Regional Capitals.	Number of forecasting systems established	10	-	-	-	-	No budgetary allocation
	Construct 100km of primary storm drains.	Km of Primary storm drains constructed	50	-	2	2.5	2.5	Low inflow of funds

1.4 Financial Allocation Trend

During the 2010-2013 MTDP implementation, the Ministry was allocated a total amount of **GH¢1,618,713,453.00**. The classifications are as follows:

- Employee Compensation – GH¢ 43,982,615.00,
- Goods and Services – GH¢ 10,630,651.00,
- Investment (Assets) – GH¢ 96,476,297.00,
- Internally Generated Funds – GH¢ 9,203,670.00,
- Donor Funds – GH¢1,351,800,767.00
- other Funds (HIPC, SIP, ABFA, MDF) – GH¢ 106,619,453.00

MWRWH 2010-2013 Budget allocation trend by classification are shown in Table 1.4.

Table 1. 4: Summary of Budgetary Allocation (2010-2013)

No Item	Description Of Item	2010	2011	2012	2013	TOTAL
1	Employee Compensation	8,478,339.00	8,732,686.00	10,812,902.00	15,958,688.00	43,982,615.00
2	Goods and Services	1,327,331.00	1,217,526.00	1,837,526.00	6,248,268.00	10,630,651.00
3	Assets	13,336,000.00	6,668,000.00	38,668,000.00	37,804,297.00	96,476,297.00
5	Internally Generated Funds (IGF)	845,430.00	1,165,840.00	1,611,880.00	5,580,520.00	9,203,670.00
6	Donor	138,857,802.00	529,903,428.00	209,245,706.00	473,793,831.00	1,351,800,767.00
7	Others (ABFA, SIP)	15,164,000.00	10,938,410.00	21,000,000.00	59,517,043.00	106,619,453.00
Grand Total		178,008,902.00	558,625,890.00	283,176,014.00	598,902,647.00	1,618,713,453.00

Source : MOF and Various Sector Budget estimates

1.5 2010-2013 Plan implementation challenges.

The challenges encountered during Plan implementation included the following:

- inadequate inflow of funds to implement programmes/projects. (The Ministry has initiated an aggressive Revenue Mobilization (IGF) strategy to support operational funding)
- Weak sector co-ordination and inter-sector collaboration. (An **organic partnership strategy** will be developed in 2015)
- Inadequate resources for Monitoring and Evaluation
- lack of a comprehensive data base for evidence-based decision on Water, Works and Housing sub-sectors of the economy
- non-conformity to sector strategy (There is high rate of non-compliance with guidelines for the delivery of Water and sanitation facilities. (A strategy to co-

ordinate and harmonize the activities NGOs operating in the sector will be put in place in 2014-2015).

- weak public –private partnership to enhance efficient service delivery
- over-reliance on Central Government to provide services relating to Water, Works and Housing segments of the economy.
- inadequate public education on waste reduction in revenue water supply.

The Ministry has also initiated stakeholder dialogue to find lasting solutions to the challenges encountered during the implementation of the 2010-2013 SMTP.

1.6 Key Development issues

The MWRWH 2010-2013 Performance Review Results revealed a number of sector specific development issues that underpin the achievement of medium to long term sector policy objectives of the Ministry. Table 1.5 indicates a summary of these issues categorized into *Housing, Works, and Water* sub -sectors

Table 1. 5: Summary of Key Development Issues

№	SUB-SECTOR	DEVELOPMENT ISSUES
1	HOUSING	<ol style="list-style-type: none"> 1. Huge housing deficit 2. Lack of a housing policy to guide the operation of Housing sub-sector 3. Over stretched housing /infrastructure services 4. Cumbersome and insecure land acquisition procedures 5. Inadequate incentives and capacity support for private sector involvement in housing delivery 6. Limited use of local building materials for housing construction 7. Weak enforcement of standards and codes in the design and construction of houses 8. Uncoordinated land development 9. Poor quality of rural housing 10. Lack of a comprehensive special policy 11. Proliferation of slum development 12. Weak enforcement of Housing Laws and Regulation 13. Weak legal framework (Acts 462, Acts 480) on slum development and slum upgrading and prevention 14. Susceptibility and lack of appropriate land and regulatory framework to address the needs of the urban poor

CHAPTER 2

PRIORITISATION OF DEVELOPMENT ISSUES

1.0 Introduction

This Chapter is on **prioritized key development issues** identified through current Situation Analysis conducted in Chapter 1. These issues underpin the achievement of development **objectives and overall medium to long term sector Goals** of the Ministry. The **strategies** (adopted from GSGDA II and other relevant sector development research/studies) contained in Chapter 3 and development interventions of Chapter 4 are designed to **resolve the key prioritized challenges** to enable the **Water, Works and Housing** sub-sectors of the economy achieve their objectives and targets for the 2014-2017 Plan period. The issues are therefore prioritized into sub-sectors using **RESULT-BASED PREFERENCE APPROACH** and various **Scenario Analysis**.

2.1 Sector Development Priorities

The Situation analysis conducted in Chapter 1 revealed a number of development challenges and unresolved issues facing the **Water, Works and Housing** sub-sectors of the economy. The development priorities for the Medium-term are:

- ✓ Reducing National Housing Deficit through the provision of safe and affordable unit particularly for low and middle income groups in collaboration with the private sector.
- ✓ Providing increased access to safe, quality and affordable water and improve management of water resources.
- ✓ Improving infrastructure facilities to protect coastal erosion and provide drainage and hydrology systems.
- ✓ Build the capacity of the Ministry to increase productivity and enhance service delivery, and
- ✓ Mobilize domestic resources (IGF) to support sector development interventions.

2.2 Summary of prioritized Development Issues

The identified development issues have been **prioritized** into **Housing, Water and Works** sub-sectors indicated in **Table 2.1**.

Table 2.1 shows a summary of prioritized issues facing the accelerated development of the sector.

Table 2. 1: Summary of prioritized Key Development issues

№	SUB-SECTOR	DEVELOPMENT ISSUES
1	HOUSING	<ol style="list-style-type: none"> 1. Huge housing deficit 2. Lack of a housing policy to guide spatial development 3. Over stretched housing /infrastructure services 4. Cumbersome and insecure land acquisition procedures 5. Inadequate incentives and capacity support for private sector involvement in housing delivery 6. Limited use of local building materials for housing construction 7. Weak enforcement of standards and codes in the design and construction of houses 8. Haphazard land development 9. Poor quality of rural housing 10. Proliferation of slum development in urban towns 11. Weak enforcement of planning laws and regulation 12. Weak legal framework (Acts 462, Acts 480) on slum development and slum upgrading and prevention. 13. Susceptibility and lack of appropriate land and regulatory framework to address the needs of the urban poor 14. Unclear mandate of local authorities to facilitate housing provision. 15. High exposure of settlements and infrastructure to natural and man-made hazards 16. High vulnerability of fishing settlements along the coast- 17. Inappropriate design of structures along vulnerable and eroding coastlines. 18. Lack of regular monitoring and maintenance of installed shore protection structures 19. Inadequate capacity at the district level to develop emergency response 20. Unrestricted development of housing dwellings in high hazard areas. 21. Lack of plans to relocate highly vulnerable communities High

№	SUB-SECTOR	DEVELOPMENT ISSUES
		<p>vulnerability to natural disasters</p> <p>22. Weak management capacity of the impacts of natural disasters and climate change</p> <p>23. Increasing frequency and impact of droughts, floods, forest and other fire outbreaks</p>
2	WATER	<ol style="list-style-type: none"> 1. Inadequate access to quality and affordable water 2. Weak water resource management 3. Lack of sustainability of water systems and service delivery 4. Inadequate access to environmental sanitation facilities 5. Poor hygiene practices and inadequate hygiene education 6. Weak sector coordination due to fragmentation of sector approaches and procedures 7. Weak institutional capacities for efficient service delivery 8. Inadequate funding 9. Limited harvesting of rain water 10. Salt water intrusion into aquifers and coastal areas resulting from reduction in upstream flows 11. Pollution of wetlands due to indiscriminate waste disposal 12. Over exploitation of wetland resources 13. Increased deforestation in river catchments 14. Impoundment of sediments and nutrient 15. Invasion by water bodies water weeds 16. Dwindling water resources 17. Water pollution, especially through illegal mining activities 18. Excessive siltation of water bodies
3	WORKS WORKS	<ol style="list-style-type: none"> 1. High exposure of settlements and infrastructure to natural and man-made hazards 2. High vulnerability of fishing settlements along the coast- 3. Inappropriate design of structures along vulnerable and eroding coastlines. 4. Lack of regular monitoring and maintenance of installed shore protection structures 5. Inadequate capacity at the district level to develop emergency

№	SUB-SECTOR	DEVELOPMENT ISSUES
		<p>response</p> <p>6. Unrestricted development in high hazard areas</p> <p>7. Lack of plans to relocate highly vulnerable communities</p> <p>8. Weak management capacity of the impacts of natural disasters and climate change</p> <p>9. Increasing frequency and impact of droughts, floods, forest and other fire outbreaks</p>

In prioritizing the development issues, “**weights**” and “**policy ranking techniques**’ as well as impact assessments of **Water, Works and Housing** sub-sectors on the aggregate economy were used.

To improve sector performance over the medium term (2014-2017), MWRWH will focus on investment in Programmes/ projects (operations) for accelerated improvement in service delivery in the **Water, Works and Housing sub-sectors of the economy**. Operational sector **effectiveness, efficiency and measurement for Results** shall be the hall mark of the Ministry and its “organic partners” during the 2014-2017 plan implementation.

During the Plan period (2014-2017), the Ministry will focus attention on strategies and interventions to **resolve the development challenges** of the following sub-sectors of the economy with specific reference to the following:

- Housing sub-sector** - **reducing the national housing deficit** through the provision of **decent, safe and affordable** housing schemes in collaboration with the private sector.

- Water sub-sector** - **consolidating the gains so far made and Improving access to quality, safe and affordable water** under the National Goal/Theme “**Water for all by 2020**”.

- Works sub-sector** - **protecting life, property and the environment**

Specifically, the medium term sector **specific strategies** of **Chapter 3** are designed to resolve the key development issues identified to enhance development performance of MWRWH and the achievement stated sector policy objectives and targets of (2014-2017 MTDP).

MWRWH 2014-2017 sector development goals policy objectives, strategies and Plan terminal Targets are contained in Chapter 3

CHAPTER 3

DEVELOPMENT GOALS, ADOPTED OBJECTIVE AND STRATEGIES

3.0 Introduction

This section is on 2014-2017 MWRWH sector goals, specific policy objectives (derived from GSGDA II broad policy objectives) and strategies (policy drivers) of the 2014-2017 SMTP. *The goals, objectives and strategies* therefore constitute the medium term “**parameter co-efficients**” of the Plan. The *development projections* (targets) are the *expected products of plan execution* over time.

The National Medium Term Development Policy Framework (**GSGDA II**) identifies seven thematic areas to guide National Development Planning in Ghana for the period 2014-2017. These are

- Ensuring and sustaining macroeconomic stability;

- Enhancing Competitiveness of Ghana’s Private Sector;
- **Accelerated Agriculture Modernization and Sustainable Natural Resource Management;**
- Infrastructure and Human Settlement;
- Oil and Gas Development;
- Human Development, Productivity and Employment; and
- **Transparent and Accountable Governance.**

Based on the prioritised key development issues (Chapter 2) and in consonance with the mandate and function of the Ministry, (1) **Infrastructure and Human Settlement** and (2) **“Transparent and Accountable Governance”** are the most relevant Thematic Areas from the GSGDA II that informed the development of this (2014-2017) sector Medium Term Plan of the Ministry. As indicated in Chapter 1, these two thematic areas constitute the **policy based** of the Plan

However, in formulating sector strategies (policy drivers) and interventions to translate the policy objectives of the **Water, Works and Housing** sub-sector into measurable results, **inter-disciplinary approach to solving development challenges** was used. **Cross-cutting issues** from the following thematic areas of GSGDA II that have **positive correlation** with the achievement of MWRWH sector specific objectives and targets were adequately taken into account:

- ❖ Macroeconomic stability
- ❖ Human Development, Productivity and Employment
- ❖ Impact of Oil and Gas Development on **Water, Works and Housing** sub-sectors
- ❖ Private Sector competitiveness in Ghana.
- ❖ Sustainable management of water resources

3.1 Sector Development Goal/s

The MWRWH has three broad development goals in line with the execution of its mandate. These are:

1. Ensuring sustainable management of the water resources of Ghana for **increased access to safe, adequate and affordable water** under the theme **“WATER FOR ALL”**.
2. **Reducing the national housing deficit** through the provision of **safe, decent, secured and affordable shelter**
3. Promoting **sustainable development of infrastructure facilities** in the area of flood control systems, drainage, coastal protection works and operational hydrology

These sector specific medium term goals (**which are derivatives of the broad goals of (GSGDA II)**) will be achieved through:

- Consolidation the development sector gains made in 2010-2013.
- *efficient management systems*
- *strategic planning, Monitoring & evaluation,*
- *institutional capacity enhancement* for improved service delivery
- Effective sector policy targeting.
- Implementing the target specific and result-based strategies of the current Plan
- Efficient utilization of available financial resources.
- Deepening organic public-private sector partnership,
- *ensuring sector accountability* through Good Governance
- Conducting sector policy re-engineering.
- Deepening sector co-ordination
- Recognizing the “***divorce between Political Ambition and ECONOMIC REALITIES***” over time.

3.2 Sector Specific Policy Objectives

The three (3) broad Medium term policy objectives of MWRWH 2014-2017 SMT Plan are:

- To ***increase access to safe, adequate and affordable water.***
- To ***reduce the national housing deficit*** through “***organic private sector partnership***” in the provision of ***safe, decent, secured and affordable shelter and***
- To protect ***life and property*** the development of infrastructure facilities in the area of ***flood control systems, drainage, coastal protection works and operational hydrology.***

The Medium Term sector specific objectives of the Ministry are linked to the following broad development goals of GSGDA II.

1. Ensuring sustainable water natural resource use through transparency and Good Governance,
2. Accelerated reforestation and plantation establishment for environmental and watershed management and job creation,
3. Maximizing national revenue and benefits to rural communities from mineral resource extraction whilst ensuring good environmental stewardship, and
4. Promoting smooth and efficient land Delivery system

3.3 Development Projections

The sector development projections for MWRWH 2014-2017 SMTDP are directly linked to the national development goals and objectives of the National Medium Term Development

Policy Framework (GSGDA II). The projections are derived from the ***Main outputs and Targets*** set in Programmes (Action Plan) of **Chapter 4**. They are based on the following:

- *historical sector development trend analysis,*
- *increased sector policy targeting,*
- *expected sector investment spurt during Plan implementation,*
- *efficient use of available development resources,*
- *commitment to achieve sector development goals and objectives this Plan,*
- *expected improvement in the general economic climate,*
- *increased organic private-public partnership,*
- *enhanced institutional capacity for improved service delivery, and*
- *high level of political commitment to sector/national development.*

The **base line** (reference point) for MWRWH 2014-2017 development projections is the sub-sector results (***main outputs and intermediary outcomes***) achieved at the terminal point of MWRWH 2010-2013 Sector MTDP.

The development projections for the 2014-2017 MWRWH Plan are classified under ***Housing, Water and Works*** sub-sectors of the economy as follows:

3.3.1 Housing sub-sector

To ***reduce the national housing deficit*** through the provision of safe, decent, secured and affordable shelter, under the Housing sub-sector, the following targets have been set.

- National housing stock increased by **15 %** by the end of 2017
- Urban housing stock increased by **12.5%** by the end of 2017
- Rural housing stock increased by **8.6%** by the end of 2017
- Access to service land (plots) for safe shelter development increased by **25%** by Dec. 2017.
- Over **1,700,000** housing backlog units reduced by **20%** by Dec. 2017.
- **20%** upgrade of existing slums by Dec. 2017 and ***ZERO tolerance*** of new ones.

3.3.2 Water sub-sector

The objective of the ***Water sub-sector*** is to ***increase access to safe, adequate and affordable water*** under the theme “**WATER FOR ALL**”. The 2014-2017 projected targets set include the following:

- Rural population with access to safe drinking water increased to **75%** by Dec. 2017.

- Urban population with access to safe drinking water increased to **82.9%** by Dec. 2017
- Total rural population (nationwide) served with safe water services increased to **16,497,399** by Dec. 2017
- Total number of districts benefiting from adequate safe water services increased to **190** by Dec. 2017
- Percentage of population obtaining safe drinking water within 20 minutes or less for a round trip increased to **75.6 %** by Dec.2017
- Per capita share of raw water resources increased by **25 %** Dec. 2017
- Valid water abstraction water permit holders increased to 100% by Dec. 2017
- Volume of raw water abstracted by permit holders sustained at **500million m³/yr** by Dec. 2017
- Number of water use permit granted increased to **550** by Dec.2017
- Number of drilling license granted increased to **300** by 2017
- Number of basin management structures established increased to **9** by Dec.2017

3.3.3 Works sub-sector

The focus of the Works sub-sector is to promote **sustainable development of infrastructure facilities** in the area of flood control systems, drainage, coastal protection works and operational hydrology to safe life and property. The targets set for the Plan period are:

- **20 %** increase in infrastructure investment for Sea defence projects.
- Effective Early Warning System for effective flood control established by Dec.2015.

3.4 Adopted Policy Objectives and Strategies

The broad policy objectives of the National Development Policy Framework (**GSGDA II - 2015-2017**) that are relevant to the mandate and the medium term development operations of MWRWH are:

1. To ensure a more efficient management of water resources
2. To accelerate the provision of adequate, safe and affordable water
3. To accelerate the provision of improved environmental sanitation facilities
4. To ensure the development and implementation of health education as a component of all water and sanitation programmes
5. To adopt a sector-wide approach to water and environmental sanitation delivery.
6. To adopt integrated water resources management

7. To enhance capacity to mitigate and reduce natural disasters, risks and vulnerability
8. To increase resilience of coastal settlement and infrastructure
9. To increase access to adequate, safe, secure and affordable shelter
10. To improve and accelerate housing delivery in the rural areas
11. To upgrade existing slums and prevent the occurrence of new ones
12. To improve sector institutional capacity
13. To ensure secure, adequate and sustainable development financing
14. To promote transparency and accountability and reduce opportunities for rent seeking behaviours.

Table 3.1 (Policy Flow Chart/Matrix) shows the linkage/mapping of (1) Sub-sector Focus Areas, (2) Key development Issues, (3) Policy Objectives (4) Strategies (*policy drivers*), and (5) Plan implementation collaborating agencies/Institutions,

Table 3. 1: Summary of prioritized Key Development issues

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
Urban Housing					
1. Housing/ Shelter	<ul style="list-style-type: none"> • Huge housing deficit • Lack of a housing policy • Over stretched housing /infrastructure services • Cumbersome and insecure land acquisition procedures • Inadequate incentives and capacity support for private sector involvement in housing delivery • Limited use of local building materials for housing construction • Weak enforcement of standards and codes in the design and construction of houses 	1.Increase access to adequate, safe, secure and affordable shelter	1.1.Develop a national housing policy 1.2.Support the creation of land Banks 1.3.Support mortgage financing 1.4.Promote the manufacture and use of local building materials and appropriate technologies in housing 1.5.Set standards for local construction materials 1.6.Provide support for private sector involvement in the delivery of rental housing 1.7.Adopt and enforce the reviewed national building codes 1.8.Improve the human and institutional capacities of the relevant institutions. 1.9.Support technical education institutions and other professional bodies to train more human resources required for planning and the construction sector 1.10. Promote the manufacture and use of brick and tile 1.11. Support the use of pozzolana cement in the construction industry	MWRWH	MLGRD, MMDAs, TCPD, Private Sector, Academic/Professional and Research Institutions, NGOs, Ghana Standards Authority
Rural Housing					
1. Housing/ Shelter	<ul style="list-style-type: none"> • Haphazard land development • Poor quality of rural housing 	2. Improve and accelerate housing delivery in the rural areas	2.1 Promote orderly growth of settlements through effective land use planning and management 2.2 Encourage the growth of settlements which can support the transformation of the rural economy 2.3 Promote improvements in housing standards, design, financing and	MWRWH	MESTI, MLGRD, MLNR MMDAs, TCPD, Private Sector, NGOs

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
1. Housing/ Shelter	<ul style="list-style-type: none"> Haphazard land development Poor quality of rural housing 	2. Improve and accelerate housing delivery in the rural areas	<p>construction</p> <p>2.4 Promote self-help building schemes organized along communal themes, co-operative societies, and crop and trade associations</p> <p>2.5 Promote the establishment of public-sponsored site and services schemes</p> <p>2.6 Provide technical assistance to communities to support basic house-building skills training programmes, technical information service and low cost house design and building competitions</p> <p>2.7 Partnering UN-HABITAT in the provision of housing units in our rural communities</p> <p>2.8 Encourage the MMDAs to use their Common Fund to embark on the construction of rental housing units on a massive scale</p> <p>2.9 Promote the manufacture and use of brick and tile</p> <p>2.10 Support the use of pozzolana cement in the construction industry</p>		
Slum upgrading					
1. Housing/ Shelter	<ul style="list-style-type: none"> Proliferation of slum development Weak enforcement of planning laws Weak legal framework (Acts 462, Acts 480) on slum development and slum upgrading and prevention Susceptibility and lack of appropriate land and regulatory 	3. Upgrade existing slums and prevent the occurrence of new ones	<p>3.1 Introduce major slum renewal programmes</p> <p>3.2 Encourage the participation of slum dwellers/urban poor including women in urban planning and decision-making</p> <p>3.3 Strengthen and Enforce the legal framework on slum development</p> <p>3.4 Improve infrastructure facilities in slum areas</p>	MWRWH	MLGRD, MESTI, TCPD, Private Sector, NGOs

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
	<p>framework to address the needs of the urban poor</p> <ul style="list-style-type: none"> Unclear mandate of local authorities to facilitate housing provision 				
<p>2. Resilient settlements and infrastructure along coasts, riverbanks and floodplains</p>	<ul style="list-style-type: none"> High exposure of settlements and infrastructure to natural and man-made hazards high vulnerability of fishing settlements along the coast- Inappropriate design of structures along vulnerable and eroding coastlines. Lack of regular monitoring and maintenance of installed shore protection structures Inadequate capacity at the district level to develop emergency response Unrestricted development in high hazard areas Lack of plans to relocate highly vulnerable communities 	<p>1. Increase resilience of coastal settlement and infrastructure</p>	<p>1.1. Develop and implement a national coastal zone management policy</p> <p>1.2. Sustain the use of both hard (revetments and groynes,) and soft (planting native vegetation) engineering measures for managing shoreline erosion</p> <p>1.3. Ensure resettlement of vulnerable communities</p> <p>1.4. Develop and implement monitoring and maintenance plans for engineered shore protection structures</p> <p>1.5. Revitalize and redevelop older coastal settlements</p> <p>1.6. Provide national guidance and standards for addressing multi-hazard threats</p> <p>1.7. Develop zoning policies that address flood plain protection,</p>	<p>MWRWH</p>	<p>MEST, EPA, TCPD, MMDAs, NGOs, Private Sector</p>

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
Water Resources Management					
3. Water, Environmental Sanitation and Hygiene	<ul style="list-style-type: none"> Weak water resource management 	1. Ensure efficient management of water resources	1.1 Support relevant state agencies, District Assemblies and local communities to undertake reforestation programme for water sheds protection 1.2 Prepare and implement a comprehensive Coastal Zone Management Strategy that addresses the protection, management, and sustainable use of wetlands and other coastal resources 1.3 Set up mechanisms and measures to support encourage and promote rainwater harvesting. 1.4 Promote re-use/recycling of water through the use of effective waste water treatment systems 1.5 Assess and identify ground water resources to enhance water availability 1.6 Continue establishment of functional management structures for all major river basins 1.7 Promote climate change adaptation in water resources management 1.8 Enhance trans-boundary water resources cooperation and management 1.9 Improve data collection for water resources assessment and decision-making 1.10 Prepare Legislative Instruments for efficient water resources management	MWRWH	MLGRD, MMDAs, Ghana Water Company, PURC, Community Water and Sanitation Agency, NGOs,, CSOs, Private Sector, Water Resources Commission Ghana health service MESTI, EPA

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
Rural Water Provision					
3. Water, Environmental Sanitation and Hygiene	<ul style="list-style-type: none"> Inadequate access to quality and affordable water 	2. Accelerate the provision of adequate, safe and affordable water	2.1.Ensure sustainable funding for rural water delivery. 2.2.Develop and manage alternative sources of water, including rain water harvesting 2.3.Adopt cost effective borehole drilling mechanisms 2.4.Establish cost effective mechanism for water quality monitoring and purification schemes 2.5.Strengthen Public-Private Partnerships in water provision 2.6.Implement measures for effective operation and maintenance, system upgrading, and replacement of water facilities. 2.7.Establish and operationalize mechanisms for water quality monitoring	MWRWH,	MLGRD, MMDAs, Ghana Water Company, PURC, Community Water and Sanitation Agency, NGOs, ,Public Health Services, CSOs, Private Sector, Water Resources Commission
3. Water, Environmental Sanitation and Hygiene	<ul style="list-style-type: none"> Lack of sustainability of systems and service delivery 	3. Accelerate the provision of adequate safe and affordable water	Urban Water Supply 3.1.Mobilize investments for the construction of new, and rehabilitation and expansion of existing water treatment plants 3.2.Ensure efficient management of assets. 3.3.Implement demand management measures for efficient water use 3.4.Encourage Private-Partner Partnerships in water services delivery 3.5.Strengthen the sub-sector management systems for efficient service delivery	MWRWH	MLGRD, MMDAs, Ghana Water Company, PURC, CWSA, NGOs, Public Health Services, CSOs, Private Sector, WRC, MESTI
3. Water, Environmental	<ul style="list-style-type: none"> Inadequate access to environmental 	4. Accelerate the provision of improved	4.1.Promote the construction and use of cost effective household and institutional latrines	MWRWH	MLGRD, MMDAs, Ghana Water Company, PURC,

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
Sanitation and Hygiene	sanitation facilities	environmental sanitation facilities	<p>4.2. Provide disability friendly sanitation facilities</p> <p>4.3. Promote recycling, reuse, reduction and recovery principles in waste management in major towns and cities</p> <p>4.4. Improve the state and management of urban sewerage systems</p> <p>4.5. Scale up the Community Led Total Sanitation (CLTS) for the promotion of household sanitation</p> <p>4.6. Review, gazette and enforce MMDAs bye-laws on sanitation</p> <p>4.7. Legally acquire and develop land/sites for the treatment and disposal of liquid and solid waste nationwide</p> <p>4.8. Strengthen Public-Private Partnerships in waste management</p> <p>4.9. Operationalize result based M&E system for effective monitoring of environmental sanitation services.</p> <p>4.10. Review and Implement the Sanitation and Water for All Ghana Compact</p> <p>4.11. Facilitate the Establishment of a National Sanitation Authority as autonomous agency with independent source of funding</p>		Community Water and Sanitation Agency, NGOs, Public Health Services, CSOs, Private Sector, Water Resources Commission, MESTI
3. Water, Environmental Sanitation and Hygiene	• Poor hygiene practices and inadequate hygiene education	5. Ensure the development and implementation of health education as a component of all water and sanitation programmes	<p>5.1. Incorporate hygiene education in all water and sanitation delivery programmes</p> <p>5.2. Promote behavioural change (hand washing with soap, household water treatment and safe storage, safe excreta disposal) for ensuring Open Defecation-Free Communities</p>	MWRWH	MLGRD, MMDAs, Ghana Water Company, PURC, Community Water and Sanitation Agency, NGOs, Public Health Services, CSOs, Private Sector, WRC, MESTI

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
3. Water, Environmental Sanitation and Hygiene	•Weak sector coordination due to fragmentation of sector approaches and procedures	6. Adopt a sector-wide approach to water and environmental sanitation delivery.	6.1.Develop and implement a Strategic Sector Development Plan 6.2.Develop a Strategic Environmental Sanitation Investment Plan 6.3.Develop and implement a comprehensive M&E for the water and sanitation sector 6.4.Implement the National Environmental Sanitation Strategy and Action plan 6.5.Incorporate cross-cutting themes such as: gender, environment, public sector reform, decentralization and governance in the implementation of SWAP	MWRWH	MLGRD, MMDAs, Ghana Water Company, PURC, Community Water and Sanitation Agency, NGOs, Public Health Services, CSOs, Private Sector, WRC, MESTI
3. Water, Environmental Sanitation and Hygiene	•Weak institutional capacities	7. Improve sector institutional capacity	7.1.Strengthen the capacity of the Water Directorate 7.2.Strengthen the capacity of the Environmental Sanitation and Hygiene Directorate 7.3.Build the capacity of district assemblies to better manage water resources as well as water and environmental sanitation facilities 7.4.Enhance the mandate and capacity of lead sector agencies (WRC, GWCL, and CWSA) 7.5.Strengthen the capacity of community level management structures	MWRWH	MLGRD, MMDAs, Ghana Water Company, PURC, Community Water and Sanitation Agency, NGOs, Public Health Services, CSOs, Private Sector, WRC, MESTI
3. Water, Environmental Sanitation and Hygiene	•Inadequate funding	8. Ensure secure, adequate and sustainable financing	8.1.Implement measures to secure adequate GoG annual budgetary allocation for the sector 8.2.Implement measures to ensure timely release of approved budget 8.3.Institute appropriate water charges/tariffs 8.4.Adopt appropriate strategies for marketing sector strategic plans 8.5.Harness additional funding from non-	MWRWH	MLGRD, MMDAs, MOF Ghana Water Company, PURC, Community Water and Sanitation Agency, NGOs, Public Health Services, CSOs, Private Sector, Water Resources

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
			<p>traditional donor sources</p> <p>8.6.Operationalize the Polluter Pays Principle</p> <p>8.7.Implement measures to increase financial and investment absorptive capacity of the sector</p>		Commission, MESTI
4. Wetlands and Water Resources Management	<ul style="list-style-type: none"> • Limited harvesting of water • Salt water intrusion into aquifers and coastal areas resulting from reduction in upstream flows • Pollution of wetlands due to indiscriminate waste disposal • Over exploitation of wetland resources • Increased deforestation in river catchments • Impoundment of sediments and nutrient • Disruption of stable climate conditions • Invasion by water weeds • Dwindling water resources • Water pollution • Excessive siltation of water bodies 	2. Adopt integrated water resources management	<p>2.1.Integrate water resources planning into national development planning</p> <p>2.2.Ensure preparation of IWRM strategies using watersheds as planning units of river basins</p> <p>2.3.Establish appropriate institutional structures and enhance capacity for planning and implementation of watersheds</p> <p>2.4.Promote partnerships between the public and private sectors for the protection and conservation of water resources</p> <p>2.5.Develop and implement sustainable cost recovery mechanisms for water supply projects</p> <p>2.6.Promote equity taking into account the specific needs and preferences of the poor</p> <p>2.7.Develop payment for eco-system services for water resource management</p>	MWRWH	FC, WRC, DAs, MAs, NGOs, FC, Bar Association, Parliament, Ghana Chamber of Mines, Minerals Commission, Research institutions such as Universities, CSIR, EPA, Geological Survey Department, MMDAs, Ministry of Lands and Natural Resources, MEST

KEY FOCUS AREA	ISSUES	POLICY OBJECTIVES	STRATEGIES	LEAD AGENCY	COLLABORATIVE AGENCIES
5. Natural Disasters, Risks and Vulnerability	<ul style="list-style-type: none"> • High vulnerability to natural disasters • Weak management capacity of the impacts of natural disasters and climate change • Increasing frequency and impact of droughts, floods, forest and other fire outbreaks 	1. Enhance capacity to mitigate and reduce natural disasters ,risks and vulnerability	1.1 Invest in early warning and response systems 1.2 Reduce impacts of natural disasters on natural resources using a multi-sectoral approach	MWRWH	MLGRD, MMDAs, TCPD, NADMO, Private Sector, NGOs

The Development Programmes and sub programmes the Ministry will execute during the Plan period (2014-2017) are indicated in **Chapter 4**

CHAPTER 4

DEVELOPMENT PROGRAMMES AND SUB-PROGRAMMES

4.0 Introduction

The development programmes and sub programmes that MWRWH will implement in 2014-2017 and the sector specific policy objectives and mapped strategies of the various programmes are contained in Table 4.1

4.1 Development Programmes and Sub-Programmes

For 2014-2017 Medium Term Plan period, MWRWH will implement four (4) main development programmes as follows:

- P1 *Management and Administration***
- P2 *Water and Sanitation Management***
- P3 *Human settlement and Development***
- P4 *Institutional Management,***

The four main development programmes have sub-sector programmes. These programmes are designed to translate the medium term policy objectives of MWRWH into **MEASURABLE DEVELOPMENT RESULTS** during and at the terminal point of the 2014-2017 Plan. Table 4.1 indicate the Main programmes, Sub programmes Objectives, and implantation strategies.

Table 4. 1: Development Programmes and Sub-Programmes

PROGRAMME	SUB-PROGRAMME	OBJECTIVES	STRATEGIES
P1. Management and Administration	SP 1. General Administration	Increase access to adequate, safe, secure and affordable shelter	<ul style="list-style-type: none"> • Ensures effective functioning of the sector to achieve its mandates which include General Services like utilities, allocation of office and residential accommodation, security, transportation, procurement and sanitation.
	SP 2. Finance	Ensure secure, adequate and sustainable financing	<ul style="list-style-type: none"> • Implement measures to increase financial and investment absorptive capacity of the sector • Harness additional funding from non-traditional donor sources
	SP 3. Human Resource, Management and Development	Increase access to adequate, safe, secure and affordable shelter	<ul style="list-style-type: none"> • Ensures human resource planning, development and management through training and motivation of staff, staff performance appraisal and recruitment, discipline and productivity improvement within the sector.
	SP 4. Policy Planning, Budgeting, Monitoring and Evaluation	Ensure secure, adequate and sustainable financing	<ul style="list-style-type: none"> • Ensure the preparation of suitable strategic and corporate and financial planning, costing and budgeting, design and implementation of monitoring and evaluation systems. • Implement measures to ensure timely release of approved budget • Adopt appropriate strategies for marketing sector strategic plans
	SP 5. Research, Statistics and Information Management	Increase access to adequate, safe, secure and affordable	<ul style="list-style-type: none"> • Conduct research into sector activities, maintain databank of information on the sector for decision making, maintain and update records of conventions, treaties and policies, establish strategies and machinery for dissemination of information

PROGRAMME	SUB-PROGRAMME	OBJECTIVES	STRATEGIES
		shelter	
	SP 6. Internal Audit	Promote transparency and accountability and reduce opportunities for rent seeking	<ul style="list-style-type: none"> Enforce the implementation of the Public Procurement Act, Internal Audit Agency Act and other Financial Management Regulations
P2. Water and Sanitation Management	SP 1. Water Sector Management	Adopt a sector-wide approach to water and environmental sanitation delivery.	<ul style="list-style-type: none"> Develop and implement a Strategic Sector Development Plan Develop a Strategic Environmental Sanitation Investment Plan Develop and implement a comprehensive M&E for the water and sanitation sector Implement the National Environmental Sanitation Strategy and Action plan Incorporate cross-cutting themes such as: gender, environment, public sector reform, decentralization and governance in the implementation of SWAP
		Improve sector institutional capacity	<ul style="list-style-type: none"> Strengthen the capacity of the Water Directorate Build the capacity of district assemblies to better manage water resources as well as water and environmental sanitation facilities Enhance the mandate and capacity of lead sector agencies (WRC, GWCL, and CWSA) Strengthen the capacity of community level management structures
P2. Water and Sanitation Management	SP 2. Water Resources Management	Ensure efficient management of water resources	<ul style="list-style-type: none"> Support relevant state agencies, District Assemblies and local communities to undertake reforestation programme for water sheds protection Prepare and implement a comprehensive Coastal Zone Management Strategy that addresses the protection, management, and sustainable use of wetlands and other coastal resources Set up mechanisms and measures to support encourage and promote rainwater harvesting. Promote re-use/recycling of water through the use of effective waste water treatment systems Assess ground water resources to enhance water availability Continue establishment of functional management structures for selected major river basins Promote climate change adaptation in water resources management Enhance trans-boundary water resources cooperation and management Improve data collection for water resources assessment and decision-making Prepare Legislative Instruments for efficient water resources management Integrate water resources planning into national development planning Ensure preparation of IWRM strategies using watersheds as planning units of river basins Establish appropriate institutional structures and enhance capacity for planning and implementation of watersheds Promote partnerships between the public and private

PROGRAMME	SUB-PROGRAMME	OBJECTIVES	STRATEGIES
			sectors for the protection and conservation of water resources <ul style="list-style-type: none"> • Develop and implement sustainable cost recovery mechanisms for water supply projects • Promote equity taking into account the specific needs and preferences of the poor Develop payment for ecosystem services for water resource management
P2. Water and Sanitation Management	SP 3. Urban Water Management	Accelerate the provision of adequate safe and affordable water	<ul style="list-style-type: none"> • Mobilize investments for the construction of new, and rehabilitation and expansion of existing water treatment plants • Ensure efficient management of assets. • Implement demand management measures for efficient water use • Encourage Private-Partner Partnerships in water services delivery • Strengthen the sub-sector management systems for efficient service delivery
P2. Water and Sanitation Management	SP 4. Rural Water Management	Accelerate the provision of adequate, safe and affordable water	<ul style="list-style-type: none"> • Ensure sustainable funding for rural water delivery. • Develop and manage alternative sources of water, including rain water harvesting • Adopt cost effective borehole drilling mechanisms • Establish cost effective mechanism for water quality monitoring and purification schemes • Strengthen Public-Private Partnerships in water provision • Implement measures for effective operation and maintenance, system upgrading, and replacement of water facilities. • Establish and operationalize mechanisms for water quality monitoring
		Accelerate the provision of improved environmental sanitation facilities	<ul style="list-style-type: none"> • Promote the construction and use of cost effective household and institutional latrines • Provide disability friendly sanitation facilities • Scale up the Community Led Total Sanitation (CLTS) for the promotion of household sanitation • Operationalize result based M&E system for effective monitoring of environmental sanitation services. • Review and Implement the Sanitation and Water for All Ghana Compact
		Ensure the development and implementation of health education as a component of all water and sanitation programmes	<ul style="list-style-type: none"> • Incorporate hygiene education in all water and sanitation delivery programmes • Promote behavioural change(hand washing with soap, household water treatment and safe storage, safe excreta disposal) for ensuring Open Defecation-Free Communities
P3. Human Settlement and Development	SP 1. Housing Sector Management	Increase access to adequate, safe, secure and affordable shelter	<ul style="list-style-type: none"> • Develop a national housing policy • Support the creation of land Banks • Adopt and enforce the reviewed national building codes • Set standards for local construction materials
		Upgrade existing slums and prevent the occurrence	<ul style="list-style-type: none"> • Introduce major slum renewal programmes • Encourage the participation of slum dwellers/urban poor including women in urban planning and decision-making

PROGRAMME	SUB-PROGRAMME	OBJECTIVES	STRATEGIES
		of new ones	<ul style="list-style-type: none"> Strengthen and Enforce the legal framework on slum development Improve infrastructure facilities in slum areas
P3. Human Settlement and Development	SP 2. Urban Housing Management	Increase access to adequate, safe, secure and affordable shelter	<ul style="list-style-type: none"> Provide support for private sector involvement in the delivery of rental housing Support mortgage financing Improve the human and institutional capacities of the relevant institutions.
P3. Human Settlement and Development	SP 3. Rural Housing Management	Improve and accelerate housing delivery in the rural areas	<ul style="list-style-type: none"> Provide technical assistance to communities to support basic house-building skills training programmes, technical information service and low cost house design and building competitions Partnering UN-HABITAT in the provision of housing units in our rural communities Encourage the MMDAs to use their Common Fund to embark on the construction of rental housing units on a massive scale Promote the manufacture and use of brick and tile Support the use of pozzolana cement in the construction industry
		Increase access to adequate, safe, secure and affordable shelter	<ul style="list-style-type: none"> Promote the manufacture and use of local building materials and appropriate technologies in housing
P3. Human Settlement and Development	SP 4. Management of Public Construction	Increase access to adequate, safe, secure and affordable shelter	<ul style="list-style-type: none"> Provide technical assistance to communities to support basic house-building skills training programmes, technical information service and low cost house design and building competitions Support the use of pozzolana cement in the construction industry Improve the human and institutional capacities of the relevant institutions. Support technical education institutions and other professional bodies to train more human resources required for planning and the construction sector
		Improve and accelerate housing delivery in the rural areas	<ul style="list-style-type: none"> Promote improvements in housing standards, design, financing and construction Promote self-help building schemes organized along communal themes, co-operative societies, and crop and trade associations
P4. Infrastructure Management	SP 1. Works Sector Management	Increase resilience of coastal settlement and infrastructure	<ul style="list-style-type: none"> Provide national guidance and standards for addressing multi-hazard threats Ensure resettlement of vulnerable communities
P4. Infrastructure Management	SP 2. General Maintenance and Management	Increase resilience of coastal settlement and infrastructure	<ul style="list-style-type: none"> Ensure resettlement of vulnerable communities Provide national guidance and standards for addressing multi-hazard threats
P4. Infrastructure Management	SP 3. Drainage Management	Reduce impacts of natural disasters on natural resources	<ul style="list-style-type: none"> Enhance capacity to mitigate and reduce natural disasters ,risks and vulnerability

PROGRAMME	SUB-PROGRAMME	OBJECTIVES	STRATEGIES
		using a multi-sectoral approach	
P4. Infrastructure Management	SP 4. Coastal Management	Increase resilience of coastal settlement and infrastructure	<ul style="list-style-type: none"> • Develop and implement a national coastal zone management policy • Sustain the use of both hard (revetments and groynes,) and soft (planting native vegetation) engineering measures for managing shoreline erosion • Develop and implement monitoring and maintenance plans for engineered shore protection structures
P4. Infrastructure Management	SP 5. Operational Hydrology	Enhance capacity to mitigate and reduce natural disasters ,risks and vulnerability	<ul style="list-style-type: none"> • Invest in early warning and response systems

CHAPTER FIVE

SECTOR ANNUAL ACTION PLAN

5.0 Introduction

The 2014-2017 Annual Action Plan Framework of MWRWH contains Activities that will be implemented under each of the Programmes and sub-programmes during the Plan period. The Action Plan Framework therefore constitutes the **operation locus** of MWRWH SMTP. It contains Programmes and sub-programme activities (operations) of the **Water, Works and Housing** sub-sectors of the Ministry. The planned Activities are linked to specific objectives outlined in Chapter 3.

5.1 2014-2017 Programmes/ Sub-programmes (Operations)

The various Programmes/sub-programmes, Planned Activities and Financial Estimates (indicative Budget) by Funding sources (GOG, IGF, Donor/DP) for 2014-2017 Plan period is shown in Table 5.1 below.

5.2 Annual Action Plan

This section also outlines **2015-2017 development Operations (Annual Action Plan)** to be executed by MWRWH as a sector of the Ministry. It establishes a direct linkage between Adopted GSGDA II policies and strategies (outlined in Chapter 4) on one hand, and, Planned Activities, Operational Location, and Time Frame for execution and plan implementation collaborators on the other hand. The template used was prescribed by the NDPC 2014-2017 Sector Planning Guidelines. *(The NDPC template does not contain the **main outputs and intermediary outcomes** that will result from e implementing planned Operations/Activities. It therefore falls short of the standard and widely used Policy Results Matrix template in public sector Development Planning).*

Table 4.3 Action Plan and Indicative Financial Estimates.

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
PROGRAMME ONE – GENERAL ADMINISTRATION AND MANAGEMENT															
	1.1 General Administration	Procurement of office facilities and supplies	0.75	-	-	0.80	-	-	0.81	-	-	0.93	-	-	3.30
		TOTAL	0.75	-	-	0.80	-	-	0.81	-	-	0.93	-	-	3.30
	1.2 Finance	Prepare quarterly financial reports	0.01	-	-	0.00	-	-	0.00	-	-	0.01	-	-	0.02
		Prepare Annual financial reports	-	-	-	0.00	-	-	0.00	-	-	0.00	-	-	0.01
		Train staff in advanced Microsoft excel applications	-	-	-	0.02	-	-	0.02	-	-	0.03	-	-	0.07
		Purchase of 3No. Safes	0.05	-	-	-	-	-	-	-	-	-	-	-	0.05
		TOTAL	0.06	-	-	0.03	-	-	0.03	-	-	0.04	-	-	0.15
	1.3 Human Resource Management and Development	Improve capacities of Heads of Directorate, Departments and Agencies and their HR officers in Performance Management.	-	-	-	0.03	-	-	-	-	-	0.04	-	-	0.07
		Train Directors/Heads of Agencies/Personnel officers in training needs assessment	-	-	-	-	-	-	0.03	-	-	-	-	-	0.03
		Conduct Sector wide skills development training in GoG rules and regulations for HR and Personnel Officers	-	-	-	0.03	-	-	0.03	-	-	0.04	-	-	0.10
		Participate in executive development programmes for Directors	0.03	-	-	0.03	-	-	0.03	-	-	0.04	-	-	0.13
		Train Directors/ other relevant staff in the Public Procurement Process (Procurement Act)	-	-	-	-	-	-	0.04	-	-	-	-	-	0.04
		Train Directors , Heads of Departments and Agencies in Public private partnerships management	-	-	-	0.03	-	-	-	-	-	0.04	-	-	0.07
		Undertake Scheme of service development programmes.	0.02	-	-	0.04	-	-	0.04	-	-	0.04	-	-	0.13
		Capacity of ThirtyFive (35) Staff developed in PPP Skills	0.05	-	-	-	-	-	-	-	-	-	-	-	0.05

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
		Counterpart Funding for Japanese Grant for developing Geographic Information System Database for Mapping Government Housing Units countrywide completed	0.02	-	-	-	-	-	-	-	-	-	-	-	0.02
TOTAL			0.11	-	-	0.15	-	-	0.17	-	-	0.20	-	-	0.64
	1.4 Policy Planning, Budgeting, Monitoring and Evaluation	Organise Mid-year review of annual budget performance	0.04	-	-	0.05	-	-	0.06	-	-	0.06	-	-	0.21
		Organise Annual review of the Sector Medium Term Development Plan	0.04	-	-	0.04	-	-	-	-	-	-	-	-	0.08
		Organise Annual review of the Sector Monitoring and Evaluation Plan	-	-	-	0.04	-	-	-	-	-	-	-	-	0.04
		Organise Mid-Term review of the Sector Medium Term Development Plan	-	-	-	-	-	-	0.05	-	-	-	-	-	0.05
		Organise Mid-Term review of the Sector Monitoring and Evaluation Plan	-	-	-	-	-	-	0.05	-	-	-	-	-	0.05
		Organise Terminal Evaluation of the Sector Medium Term Development Plan	-	-	-	-	-	-	-	-	-	0.05	-	-	0.05
		Organise Terminal Evaluation of the Sector Monitoring and Evaluation Plan	-	-	-	-	-	-	-	-	-	0.05	-	-	0.05
		Implement the M&E Action plan	-	-	-	0.10	-	-	0.12	-	-	0.13	-	-	0.34
		Prepare Annual progress reports	-	-	-	0.01	-	-	0.01	-	-	-	-	-	0.01
		Prepare quarterly budget performance reports	-	-	-	0.01	-	-	0.01	-	-	-	-	-	0.01
		Prepare Annual Budget Estimates for ensuing year	-	-	-	0.03	-	-	0.03	-	-	0.03	-	-	0.09
		Undertake Impact Assessment of the Keta Sea Defence Project	0.06	-	-	-	-	-	-	-	-	-	-	-	0.06
		Undertake Impact Assessment of the Koforidua Water Project (Phase I & II)	0.04	-	-	-	-	-	-	-	-	-	-	-	0.04
		Undertake Impact Assessment of the Atorkor-Dzita-Anyanui Sea Defence Project (Phase I & II)	0.04	-	-	-	-	-	-	-	-	-	-	-	0.04

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
		Purchase of 2№ Pick0up vehicles for Monitoring	0.15	-	-	-	-	-	-	-	-	-	-	-	0.15
		TOTAL	0.38	-	-	0.27	-	-	0.30	-	-	0.32	-	-	1.27
	1.5 Research, Statistics and Information Management	Publishing of Quarterly Sector Newsletter	-	-	-	0.00	-	-	0.01	-	-	0.01	-	-	0.01
		Participation in Meet- the- Press-Series	-	-	-	0.01	-	-	0.01	-	-	0.02	-	-	0.04
		Research/Impact Assessment on Relevant Policies and Programmes	-	-	-	0.06	-	-	0.08	-	-	0.08	-	-	0.22
		Preparation and Submission of Annual Performance Report to OHCS	-	-	-	0.00	-	-	0.01	-	-	0.00	-	-	0.01
		Public Sensitization on Policies and Programmes by Hon. Minister and Deputies	-	-	-	0.03	-	-	0.04	-	-	0.05	-	-	0.12
		Policy Research and Data Collation and Compilation for Decision making and Policy Formulation	-	-	-	0.03	-	-	0.05	-	-	0.06	-	-	0.14
		Rehabilitation of Information Centre/Library	0.05	-	-	0.06	-	-	0.04	-	-	0.03	-	-	0.16
		Facilitated Training of staff in the use of ICT and Client Service	-	-	-	0.05	-	-	0.04	-	-	0.05	-	-	0.13
		Development a new ICT Policy	-	-	-	0.01	-	-	-	-	-	-	-	-	0.01
		Evaluate the existing ICT Policy	-	-	-	-	-	-	-	-	-	0.01	-	-	0.01
		Review existing and Develop New Sector publications (Sector Handbook, Service Brochure, Ministry's Service Charter)	0.03	-	-	0.02	-	-	0.02	-	-	0.03	-	-	0.09
		Participation in National/ Regional Policy Fairs and International Fairs	0.02	-	-	0.03	-	-	0.03	-	-	0.03	-	-	0.10
		Organisation of Press releases/Radio/TV discussions	-	-	-	0.03	-	-	0.04	-	-	0.05	-	-	0.12
		Maintenance of Ministry's Website, LAN/WAN	-	-	-	0.01	-	-	0.00	-	-	0.00	-	-	0.02
		Conduct Beneficiary/Clients Service Surveys	-	-	-	0.00	-	-	0.00	-	-	0.01	-	-	0.01
		Upgrade facilities and Information Materials in Ministerial	-	-	-	0.00	-	-	0.00	-	-	0.00	-	-	0.00

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Library/Resource Centre													
		Collation/Compilation of Conventions, Protocol Agreements, Statutory Acts, ,MOU's and Contracts	-	-	-	0.00	-	-	-	-	-	0.00	-	-	0.00
		Update information on Conventions, Statutory Acts, ,MOU's and Contracts	-	-	-	0.00	-	-	0.00	-	-	-	-	-	0.00
		Set-up Client Service Unit	-	-	-	0.05	-	-	-	-	-	-	-	-	0.05
		TOTAL	0.09	-	-	0.37	-	-	0.36	-	-	0.40	-	-	1.22
	1.6 Internal Audit	Conduct financial audit	-	-	-	0.01	-	-	0.01	-	-	0.01	-	-	0.02
		Organize ARIC meetings	-	-	-	0.02	-	-	0.02	-	-	0.02	-	-	0.07
		2 officers to attend training on Report writing and information gathering skills	-	-	-	0.00	-	-	0.01	-	-	0.01	-	-	0.01
		Verification and inspection of projects	-	-	-	0.03	-	-	0.04	-	-	0.04	-	-	0.10
		Conduct procurement and stores management Audit	-	-	-	0.00	-	-	0.00	-	-	0.03	-	-	0.03
		Conduct payroll/personnel management audit	-	-	-	-	-	-	0.00	-	-	0.00	-	-	0.00
		One officer to attend International Conference	-	-	-	0.02	-	-	-	-	-	0.01	-	-	0.03
		2 Officers to attend training in project auditing	-	-	-	0.00	-	-	-	-	-	-	-	-	0.00
		2 Officers to attend training in Risk/system based auditing	-	-	-	-	-	-	0.00	-	-	0.00	-	-	0.01
		Follow-up on previous audit by IAU and GAS	-	-	-	0.01	-	-	0.01	-	-	0.01	-	-	0.02
		Conduct Asset Management audit	-	-	-	0.00	-	-	0.00	-	-	0.00	-	-	0.01
		Conduct management/ operational audit	-	-	-	0.00	-	-	-	-	-	-	-	-	0.00
		Prepare Ensuing year budget and audit plans	-	-	-	0.00	-	-	0.01	-	-	0.01	-	-	0.01
		Develop a Risk register for the Ministry	-	-	-	0.02	-	-	-	-	-	-	-	-	0.02
		Prepare strategic plan for the Unit	-	-	-	-	-	-	-	-	-	0.02	-	-	0.02
		TOTAL	-	-	-	0.12	-	-	0.09	-	-	0.14	-	-	0.36

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
PROGRAMME TWO - WATER AND SANITATION MANAGEMENT															
	2.1 Water Sector Management	Develop a comprehensive M & E Framework for the water sector	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
		Review the existing National Water Policy	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
		Develop Rainwater Harvesting Strategy	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
		Organise the Annual Ghana Water Forum	0.03	-	-	-	-	-	-	-	-	-	-	-	0.03
		Prepare publications and Annual Reports	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
		Organise SWAp workshops (i.e. Gender, CSO, Risk Assessment, etc)	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
		Organise Sector working group meetings	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
		Facilitate the review of technology options for rural and small towns water supply to make them more affordable and disability friendly	-	-	-	0.20	-	-	0.20	-	-	-	-	-	0.40
		Facilitate the review of technology options for urban water supply to make them more affordable and disability friendly	-	-	-	0.20	-	-	0.20	-	-	-	-	-	0.40
		Coordinate a functionality study to compile database on all water facilities to inform planning on replacement/major rehabilitation of water facilities	-	-	-	0.50	-	-	0.50	-	-	-	-	-	1.00
		Coordinate the development of a national water safety plan (to clarify safety standards for water service, river basin management and responsible institutions)	-	-	-	0.10	-	-	0.15	-	-	0.20	-	-	0.45
		Collaborate, lead and monitor the quality of water across the country	-	-	-	0.10	-	-	0.15	-	-	0.20	-	-	0.45
		Monitor the implementation of PPP framework on hand washing with soap at community and DA level.	-	-	-	0.15	-	-	0.20	-	-	0.25	-	-	0.60

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Coordinate the Implementation of national household water treatment and safe storage strategy	-	-	-	0.05	-	-	0.10	-	-	0.15	-	-	0.30
		Strengthen the Institutional capacity of the WD	-	-	-	0.30	-	-	0.40	-	-	0.50	-	-	1.20
		Review the National Water Policy to address emerging challenges and clarify mandates and roles among stakeholders	-	-	-	0.20	-	-	-	-	-	-	-	-	0.20
		Review the Water Sector Strategic Development Plan (WSSDP) to address emerging challenges and issues as outlined in the National Water Policy	-	-	-	-	-	-	-	-	-	0.30	-	-	0.30
		Lead the development of a comprehensive M&E Framework for the WASH Sector	-	-	-	0.15	-	-	0.15	-	-	-	-	-	0.30
		Establish an MIS Unit within the Water Directorate to track progress within the WASH Sector	-	-	-	0.30	-	-	0.15	-	-	0.10	-	-	0.55
		Lobby to ensure that adequate logistics and budgetary support are provided for WASH activities of District Works Departments in all MMDAs	-	-	-	0.07	-	-	0.05	-	-	0.05	-	-	0.17
		Support all DAs to pass and gazette bye-laws to legalise WSMTs	-	-	-	0.10	-	-	0.12	-	-	0.14	-	-	0.36
		Facilitate review/update of DWSPs as part of the process for preparing DMTDPs in all MMDAs	-	-	-	0.30	-	-	0.40	-	-	0.50	-	-	1.20
		Institute annual auditing of the accounts of WSMTs by MMDAs	-	-	-	0.60	-	-	0.65	-	-	0.70	-	-	1.95
		Publish annual statement of accounts of CWSA, GWCL and WRC in the national dailies	-	-	-	0.01	-	-	0.15	-	-	0.02	-	-	0.18
		Establish and operationalise level learning alliance platforms in all regions	-	-	-	0.30	-	-	0.25	-	-	0.25	-	-	0.80
		Facilitate signing of MoU including risks and sanctions on SWAp	-	-	-	0.03	-	-	-	-	-	-	-	-	0.03

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
		Establish an Inter-Ministerial Steering Committee (IMSC) for water	-	-	-	0.05	-	-	0.05	-	-	0.05	-	-	0.15
		Institutionalise monthly sector working group meetings	-	-	-	0.02	-	-	0.03	-	-	0.03	-	-	0.08
		Monitor the implementation of the activities outlined in the SSDP to inform policy	-	-	-	0.10	-	-	0.15	-	-	0.20	-	-	0.45
		Coordinate the development of strategic policy framework for rainwater harvesting	-	-	-	0.15	-	-	0.10	-	-	-	-	-	0.25
		Facilitate the county's financial contribution, participation and implementation in international programmes and plans (e. g. VBA, GEF-Volta, GWP/WA and AMCOW)	-	-	-	0.20	-	-	0.20	-	-	0.20	-	-	0.60
		Set up a national M&E coordination group for the sector with clear terms of reference	-	-	-	0.05	-	-	0.05	-	-	0.05	-	-	0.15
		Ensure the setting up and resourcing of M&E units at GWCL, WRC and CWSA to provide regular update on agreed sector indicators.	-	-	-	0.02	-	-	0.01	-	-	0.01	-	-	0.04
		Design and implementation of framework for collaborating with MGCSP in WASH delivery	-	-	-	0.06	-	-	0.08	-	-	0.07	-	-	0.20
		Lead the organisation of the Annual Ghana Water Forum	-	-	-	0.20	-	-	0.25	-	-	0.30	-	-	0.75
		Lead in the design and publications of the following reports: Annual Reports (WASH Annual report, Water focus, Ghana Water Forum report, Ghana Water Forum Journal etc) prepared	-	-	-	0.15	-	-	0.17	-	-	0.20	-	-	0.52
		Coordinate the organisation of the Annual Inter School Quiz competition	-	-	-	0.15	-	-	0.18	-	-	0.22	-	-	0.55
		Ensure the rolling out of the DiMES software in all MMDAs	-	-	-	0.03	-	-	0.03	-	-	0.03	-	-	0.09

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
		Carry out quarterly review of water tariffs in accordance with PURC's automatic adjustment formulae	-	-	-	0.03	-	-	0.03	-	-	0.03	-	-	0.09
		Ensure the implementation of the framework on private sector participation in the water sector including financing (BOO, BOT etc.)	-	-	-	0.01	-	-	0.01	-	-	0.01	-	-	0.03
		Develop appraisal and adoption of financing mechanism for capital maintenance	-	-	-	0.08	-	-	0.05	-	-	-	-	-	0.13
		Purchase three (3) cross country vehicles to support monitoring and coordination activities of the Directorate	-	-	-	0.24	-	-	0.24	-	-	0.24	-	-	0.72
		Ensure the routine training for WATSAN C'ttees, WSMTs, Pump Caretakers and Area Mechanics	-	-	-	0.10	-	-	0.12	-	-	0.15	-	-	0.37
		Provide technical support to CONIWAS to track sector investments and report on NGO contributions to the sector	-	-	-	0.10	-	-	0.12	-	-	0.14	-	-	0.36
		Provide adequate resources for sector learning platforms and extend learning alliance platforms to the regional levels	-	-	-	0.03	-	-	0.04	-	-	0.05	-	-	0.12
		Provide support for research on sector issues	-	-	-	0.10	-	-	0.12	-	-	0.15	-	-	0.37
		Participate in Annual WASH conferences and For a around the World	-	-	-	0.10	-	-	0.12	-	-	0.15	-	-	0.37
		Capacity building and training of the Water Directorate Staff	-	-	-	0.20	-	-	0.24	-	-	0.27	-	-	0.71
		TOTAL	0.05	-	-	5.83	-	-	6.20	-	-	5.90	-	-	17.99
	2.2 Water Resources Management	Support and manage Local transboundary projects	-	0.14	-	-	-	-	-	-	-	-	-	-	0.14
		Improve Water resources assessment for decision making	-	0.12	-	-	-	-	-	-	-	-	-	-	0.12
		Enhance awareness in water management issues	-	0.22	-	-	-	-	-	-	-	-	-	-	0.22
		Put in Place an Effective Water	-	0.15	-	-	-	-	-	-	-	-	-	-	-

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Resources Management				-						-			0.15
		Initiate the Implementation of the Buffer Zone policy	-	0.19	-	-	-	-	-	-	-	-	-	-	0.19
		Establish a functioning dam safety unit	-	0.16	-	-	-	-	-	-	-	-	-	-	0.16
		Improve the capacity to manage water resources	-	0.15	-	-	-	-	-	-	-	-	-	-	0.15
		Improve internal MIS and knowledge system	-	0.15	-	-	-	-	-	-	-	-	-	-	0.15
		1. Promotion and implementation of buffer zone schemes 2. Development and Administration of Legislative Instrument on buffer zone policy.	-	-	-	-	0.22	-	-	0.29	-	-	0.39	-	0.90
		1. Rainwater Harvesting in National Building Code 2. Public education on the institutionalisation of rainwater harvesting 3. Promotion of research results and community rainwater harvesting schemes	-	-	-	-	0.15	-	-	0.17	-	-	0.24	0.13	0.68
		1. Surface water assessment in selected basins. 2. Monitoring of groundwater resources. 3. Ecological monitoring of water bodies. 4. Monitoring and analysis of raw water quality.	-	-	-	-	0.14	-	-	0.17	-	-	0.29	-	0.59
		Set up of priority basins with functional basin offices and boards	-	1.69	-	-	1.14	-	-	1.37	-	-	1.58	-	5.78
		1. Strengthening flood forecasting in the White Volta Basin 2. Climate change adaptation initiatives in the northern regions	-	-	-	-	-	2.00	-	-	-	1.25	-	1.50	4.75
		1. Development and ratification of international protocols 2. Promoting technical cooperation with Ghana-Burkina Joint Technical Committee on IWRM, Volta Basin	-	0.16	-	-	0.32	-	-	0.37	-	-	0.42	-	1.27

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
		Authority and the ECOWAS/WRCC													
		1. Administration and compliance monitoring of the Water Use Regulations (LI 1692), Drilling License and Groundwater Development Regulations (LI 1827) and the Dam Safety Regulations 2. Review of existing Regulations	-	-	-	-	0.35	-	-	0.40	-	-	0.47	-	1.22
		1. Implementation of planned programs and activities of the WRC Communication Strategy	-	-	-	-	0.30	-	-	0.38	-	-	0.45	-	1.13
		1. Promotion of further hydrogeological investigations nationwide 2. Research into strategies for adaptation to climate change	-	-	-	-	-	1.87	-	-	2.27	-	-	1.97	6.11
		1. Development and Update of river basin IWRM plans 2. Implementation of developed basin and national IWRM Plans	-	-	-	-	0.63	-	-	0.73	-	-	0.84	-	2.20
		1. Staff needs and training programs/events 2. Implementation of Gender and WRM strategy. 3. Institutional capacity building	-	-	-	-	0.30	-	-	0.38	-	-	0.40	-	1.08
		1. Introduction of PES in the Pra and Kakum basins	-	-	-	-	0.10	0.40	-	0.20	0.50	-	0.25	1.00	2.45
		TOTAL	-	3.12	-	-	3.65	4.27	-	4.44	4.02	-	5.33	4.60	29.43
	2.3 Urban Water Management	Kpong Water Supply Expansion	-	-	49.83	0.83	-	44.02	1.67	-	-	-	-	-	96.35
		Essakyir Water Supply - Additional works,	-	-	12.97	0.50	-	-	1.00	-	-	-	-	-	14.47
		Nsawam Water Project Phase 2,	-	-	-	0.50	-	6.30	0.50	-	-	-	-	-	7.30
		Kumasi Water Supply Addendum,	-	-	-	0.35	-	33.56	0.35	-	2.15	-	-	-	36.41
		Kumawu, Konongo, Kwahu Ridge Water Project	-	-	38.57	0.40	-	202.19	0.40	-	17.64	-	-	-	259.19
		Akim Oda, Akwatia, Winneba WSP	-	-	54.50	0.35	-	119.30	0.35	-	11.54	-	-	-	186.05
		Upper East Region WSP	-	-	-	0.30	-	54.76	0.30	-	3.51	-	-	-	58.87
		Sunyani Water Supply	-	-	-	0.40	-	276.98	0.40	-	221.59	0.40	-	166.19	665.96
		Damongo WSP	-	-	2.78	1.00	-	387.50	1.00	-	258.34	-	-	16.56	667.18

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Agordome Assin Fosu WSP	-	-	-	1.00	-	129.68	1.00	-	103.74	0.30	-	77.81	313.52
		Cape Coast Water Supply - Addendum	0.70	-	-	0.40	-	29.25	0.40	-	23.40	0.40	-	17.55	72.10
		Sekondi Takoradi Water Supply Project	-	-	-	0.42	-	366.14	-	-	292.92	1.00	-	219.69	880.17
		Essiama Enclave WSP	-	-	-	0.30	-	398.13	-	-	318.50	1.00	-	238.88	956.80
		Dormaa Ahenkro, Berekum and Suhum Water Supply Project	-	-	-	0.25	-	340.23	0.25	-	272.18	-	-	204.14	817.04
		Keta Water Supply Project	-	-	-	1.17	-	106.17	1.17	-	84.94	-	-	63.70	257.14
		Aflao, Abor and Agbozume Water Supply Project	-	-	-	0.50	-	113.65	0.50	-	90.92	-	-	68.19	273.75
		Kpeve Water Supply Project	-	-	-	0.30	-	166.99	0.30	-	133.59	-	-	100.19	401.37
		Water Project For Rehabilitation of Existing Works and Expansion Works	-	-	-	0.40	-	453.33	0.40	-	362.66	1.17	-	272.00	1,089.96
		Wa Water Supply Expansion Project	-	-	39.89	1.17	-	39.33	1.17	-	3.89	0.50	-	-	85.94
		Yendi Water Supply Project	-	-	-	0.50	-	35.00	0.50	-	28.00	-	-	21.00	85.00
		Tamale Water Supply Project	-	-	15.54	0.83	-	196.50	0.83	-	157.20	0.40	-	117.90	489.21
		Kpong - Accra Transmission Pipeline + Expansion of 6.6MGD	-	-	15.03	-	-	129.75	-	-	103.80	1.17	-	77.85	327.61
		Techiman Water Supply Project	-	-	-	2.17	-	81.39	2.17	-	65.11	0.50	-	48.83	200.16
		Accra and Kumasi Distribution Network Strengthening	-	-	-	1.50	-	175.00	1.50	-	140.00	0.83	-	105.00	423.83
		Installation of Electromechanical Equipment	-	-	-	-	-	204.75	-	-	163.80	-	-	122.85	491.40
		Weija Fencing and Catchment restoration	-	-	-	0.83	-	2.64	0.83	-	2.11	2.17	-	1.58	10.17
		Aquatic Weed clearing on Kpong, Weija, Tanoso, Owabi, Barekese, Brimsu, Kwanyaku	-	-	-	1.17	-	1,109.06	1.17	-	887.25	1.50	-	665.44	2,665.58
		Services for the Enhancement of Nationwide Water Network Management (GIS Nationwide Project)	-	-	-	1.07	-	17.55	1.07	-	10.53	-	-	0.72	30.93
		Teshie Desalination (PPP)	-	-	-	0.40	-	1.52	0.40	-	0.91	0.83	-	0.06	4.13
		Asutsuare Water PPP	-	-	-	1.00	-	2.13	1.00	-	1.28	1.17	-	0.09	6.67
		Sogakope - Lome WSP	-	-	-	-	-	-	-	-	-	1.07	-	-	1.07

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Cape Coast Water Supply - Additional works	-	-	-	38.50	-	27.42	39.12	-	16.45	-	-	1.13	122.62
		Establishment of District office	-	-	-	-	-	1.83	-	-	1.10	1.00	-	0.08	4.00
		Installation of Prepaid Metering	-	-	-	-	-	17.06	-	-	10.24	-	-	0.70	28.00
		Payment of Land and Crop compensation	0.58	-	-	-	-	-	-	-	-	-	-	-	0.58
		Urban Water Project	-	-	11.77	-	-	-	-	-	-	-	-	-	11.77
		ATMA Water Supply System (South of Kpong)	-	-	6.61	-	-	-	-	-	-	-	-	-	6.61
		ATMA Water Supply System (North of Kpong)	-	-	3.32	-	-	-	-	-	-	-	-	-	3.32
		Koforidua Water Supply Phase III (Tafo Water Supply)	-	-	4.20	-	-	-	-	-	-	-	-	-	4.20
		Kumawu, Konongo, Kwahu Ridge Water Project (Phase II)	-	-	34.13	-	-	-	-	-	-	-	-	-	34.13
		Five Towns Water Supply Project	-	-	4.93	-	-	-	-	-	-	-	-	-	4.93
		TOTAL	1.28	-	294.08	58.51	-	5,269.11	59.73	-	3,789.29	15.40	-	2,608.11	12,095.51
	2.4 Rural Water Management	Construct 4500 Boreholes	8.00	-	-	10.00	-	30.00	10.00	-	36.00	13.00	-	40.00	147.00
		Rehabilitate 120 Boreholes	-	-	-	0.57	-	-	0.65	-	-	0.75	-	-	1.97
		Construct 240 Pipe Scheme	-	-	-	-	-	-	-	-	230.00	-	-	265.00	495.00
		Rehabilitate 30 Pipe Scheme	-	-	-	9.00	-	-	10.00	-	-	12.00	-	-	31.00
		Construct three (3) Multi-Village Pipe Schemes	-	-	-	-	-	122.00	-	-	140.00	-	-	160.00	422.00
		Scale up CLTS *Deepen the PPP in Hand washing with soap campaign *Promote household treatment technologies	-	-	-	-	-	110.00	-	-	126.00	-	-	145.00	381.00
		Formulate Project Proposals and market proposals to Development Partners	-	-	-	0.05	-	-	-	-	-	-	-	-	0.05
		*Review Project Proposals	-	-	-	-	-	-	-	-	-	-	-	6.00	6.00
		*Pilot research findings for rain harvesting	-	-	-	-	-	2.00	-	-	-	-	-	-	2.00
		*Scale-up piloted for rain water	-	-	-	-	-	-	-	-	4.00	-	-	-	4.00

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		harvesting technology													
		*Undertake monitoring visits and provide backstopping	-	-	-	0.22	-	-	0.25	-	-	0.28	-	-	0.75
		Construct 31 small towns pipe systems for rural communities countrywide	-	-	8.29	-	-	-	-	-	-	-	-	8.29	
		Implement the Sustainable water and sanitation project	-	-	10.49	-	-	-	-	-	-	-	-	10.49	
		Implement the Northern Region Small Towns Water and Sanitation Project	-	-	3.99	-	-	-	-	-	-	-	-	3.99	
		Implement the CWSA Local Service Delivery Governance	-	-	4.59	-	-	-	-	-	-	-	-	4.59	
		Support to Climate Change	-	-	0.66	-	-	-	-	-	-	-	-	0.66	
		Implement the KOICA Water supply and sanitation project in Kraqchi East and West Districts	-	-	6.82	-	-	-	-	-	-	-	-	6.82	
		Implement the Sanitation and Water in Small Towns and Rural Areas (SAWiSTRA)	-	-	6.07	-	-	-	-	-	-	-	-	6.07	
		Implement the Four Constituencies water supply project	-	-	8.20	-	-	-	-	-	-	-	-	8.20	
		Implement the Four Constituencies water supply project (Phase II)	-	-	6.40	-	-	-	-	-	-	-	-	6.40	
		Implement Water and Sanitation Programmes	-	-	7.07	-	-	-	-	-	-	-	-	7.07	
		TOTAL	8.00	-	62.59	19.83	-	264.00	20.90	-	536.00	26.04	-	616.00	1,553.35
		PROGRAMME THREE – HUMAN SETTLEMENT DEVELOPMENT													
	3.1 Housing Sector Management	Conclude the review of the Draft National Housing Policy and Strategy	0.02	-	-	-	-	-	-	-	-	-	-	-	0.02
		Undertake sensitization/Awareness Programmes on the Housing Policy	-	-	-	0.04	-	-	0.05	-	-	0.05	-	-	0.14
		Implement the redevelopment programme to increase the housing stock for public workers	-	-	-	3.00	-	-	3.45	-	-	3.90	-	-	10.35
		Completion of 1,416No. affordable housing units by SSNIT	-	-	-	-	-	97.50	-	-	97.50	-	-	-	195.00
		Completion of 1,526No. affordable	-	-	-	-	-	-	-	-	-	-	-	33.33	

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		housing units				-		33.33			33.33	-			100.00
		Completion of 662No. affordable housing units	-	-	-	-	-	25.00	-	-	25.00	-	-	-	50.00
		Construction of 5,000 Housing Units by M/s Construtora OAS	-	-	44.74	-	-	104.00	-	-	104.00	-	-	104.00	356.74
		Construction of 4,120 Housing Units by M/s Itai Construct	-	-	-	-	-	104.00	-	-	104.00	-	-	104.00	312.00
		Construct housing units for Public Servants	-	-	-	15.00	-	-	17.25	-	-	19.50	-	-	51.75
		Construct 368No housing units for the security services under the Security Services Housing Programme Phase II	10.00	-	-	15.00	-	-	17.25	-	-	19.50	-	-	61.75
		Identify and procure land banks for affordable housing projects	0.01	-	-	0.50	-	-	0.58	-	-	0.65	-	-	1.74
		Review of building regulations (LI 1630) and Sensitization/Awareness of Reviewed Building Code and regulations	0.02	-	-	0.05	-	-	0.06	-	-	0.07	-	-	0.19
		Support the Implementation of the Slum Upgrading and Prevention Strategy	-	-	-	0.50	-	-	0.58	-	-	0.65	-	-	1.73
		Payment of subscription to International Organisations (UN-HABITAT, AMCHUD)	-	-	-	0.06	-	-	0.07	-	-	0.08	-	-	0.21
		TOTAL	10.05	-	44.74	34.15	-	363.83	39.27	-	363.83	44.40	-	241.33	1,141.61
	SP 3.2 Urbann Housing Management	Development of a national rent policy and review of the rent act 1963,	-	-	-	0.06	-	-	-	-	-	-	-	-	0.06
		Embark on a national public education and sensitization programme	-	-	-	0.06	-	-	-	-	-	0.10	-	-	0.16
		Renovation and refurbishment of Rent Control offices	0.07	-	-	0.15	-	-	-	-	-	0.30	-	-	0.52
		National registration of landlords and tenants	-	-	-	0.06	-	-	-	-	-	-	-	-	0.06
		Development of an online site for prospective tenants and vacant apartments for rent	-	-	-	0.15	-	-	-	-	-	-	-	-	0.15
		Procurement of 4 pickup vehicles	-	-	-	0.10	-	-	-	-	-	-	-	-	0.10

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Capacity building of rent officers	-	-	-	0.02	-	-	-	-	-	0.02	-	-	0.05
		Opening of four new offices	0.19	-	-	-	-	-	0.25	-	-	-	-	-	0.44
		Purchase of office equipment	-	-	-	-	-	-	0.01	-	-	-	-	-	0.01
		Recruitment and training of new of officers	-	-	-	-	-	-	0.02	-	-	-	-	-	0.02
		Documentary on basic rent laws and procedure	-	-	-	-	-	-	0.04	-	-	-	-	-	0.04
		Open forum for the public on rent issues	-	-	-	-	-	-	0.03	-	-	-	-	-	0.03
		Purchase of two saloon vehicles	-	-	-	-	-	-	0.13	-	-	-	-	-	0.13
		Disburse housing loans for Civil and Public Servants	0.06	1.98	-	5.00	-	-	6.00	-	-	7.00	-	-	20.04
		Provision of Infrastructural Services	-	23.65	-	-	6.33	-	-	-	-	-	-	-	29.98
		All construction projects	-	0.02	-	-	0.02	-	-	-	-	-	-	-	0.04
		Construction of Flats Com. 1	-	12.80	-	-	20.00	-	-	9.20	-	-	-	-	42.00
		Construction of Flats Com. 23	-	10.00	-	-	80.00	-	-	120.00	-	-	60.00	-	270.00
		Affordable Housing	-	20.80	-	-	25.00	-	-	25.00	-	-	5.20	-	76.00
		Infrastructure Development	-	15.00	-	-	27.00	-	-	-	-	-	-	-	42.00
		Staff housing	-	1.20	-	-	5.50	-	-	7.00	-	-	7.00	-	20.70
		Shops & offices	-	15.80	-	-	2.45	-	-	150.00	-	-	75.00	-	243.25
		Kaizer flats redevelopment (Phase 1)	-	25.00	-	-	200.00	-	-	-	-	-	-	-	225.00
		Organizational restructuring	-	-	-	-	-	-	-	-	-	-	0.75	-	0.75
		ICT Upgrade Project	-	0.20	-	-	0.55	-	-	-	-	-	-	-	0.75
		Staff training	-	0.36	-	-	-	-	-	0.65	-	-	-	-	1.01
		Acquisition of Lands	-	0.25	-	-	0.25	-	-	0.25	-	-	0.25	-	1.00
		Integration of building codes into Construction of Estates Houses	-	0.80	-	-	0.80	-	-	0.80	-	-	0.80	-	3.21
		Granting opportunity for students to do attachments, national service and employment	-	0.01	-	-	0.01	-	-	0.01	-	-	0.01	-	0.05

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Promote the use of pozzolana cement in the construction industry	-	0.50	-	-	0.50	-	-	0.50	-	-	0.50	-	2.00
		Urban regeneration	-	7.50	-	-	7.50	-	-	7.50	-	-	7.50	-	30.00
		Promoting waste management and recycle	-	8.75	-	-	8.75	-	-	8.75	-	-	8.75	-	35.00
		Ensuring an orderly self-sustaining Planning Schemes	-	7.50	-	-	7.50	-	-	7.50	-	-	7.50	-	30.00
		Ensuring that housing designs financing and construction meets the national standards	-	5.63	-	-	5.63	-	-	5.63	-	-	5.63	-	22.52
TOTAL			0.31	157.76	-	5.60	397.80	-	6.47	342.80	-	7.42	178.90	-	1,097.06
	SP 3.3 Rural Housing Management	Training of 150N¢ District Assemblies Technicians	-	-	-	0.03	-	-	0.03	-	-	0.04	-	-	0.10
		Sensitization and Awareness	-	-	-	0.01	-	-	0.01	-	-	0.02	-	-	0.04
		Construction of 300N¢ Rural Houses	-	-	-	0.50	-	-	0.63	-	-	0.75	-	-	1.88
		Rehabilitation of 150N¢ Rural Houses	-	-	-	0.25	-	-	0.30	-	-	0.35	-	-	0.90
		Establish 4N¢ model villages	-	-	-	0.04	-	-	0.05	-	-	0.06	-	-	0.15
		Establish 30N¢ District Assembly staff housing	-	-	-	0.13	-	-	0.15	-	-	0.20	-	-	0.48
		Establish 135N¢ Training centres	0.03	-	-	1.13	-	-	1.50	-	-	1.75	-	-	4.41
		Construction skills training in District Assemblies	0.02	-	-	0.50	-	-	0.60	-	-	0.70	-	-	1.82
		Establish 30N¢ Material banks	-	-	-	0.20	-	-	0.25	-	-	0.30	-	-	0.75
		Establish Corporative Housing Schemes in fifteen (15) region	-	-	-	0.05	-	-	0.06	-	-	0.08	-	-	0.19
		Complete the Rehabilitation of Official Bungalows nationwide	0.02	-	-	-	-	-	-	-	-	-	-	-	0.02
TOTAL			0.06	-	-	2.83	-	-	3.58	-	-	4.24	-	-	10.70
	P3.4 Management of public construction	Training of probationers in the architectural profession.	-	-	-	0.02	-	-	0.03	-	-	0.03	-	-	0.08
		Development control workshop for technicians	-	-	-	0.03	-	-	0.03	-	-	0.03	-	-	0.08
		Professional practice exams and	-	-	-	-	-	-	-	-	-	-	-	-	-

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		induction ceremony.				0.04			0.05			0.05			0.14
		Sensitization and advocacy program on the use of local building materials	-	-	-	0.04	-	-	-	-	-	-	-	-	0.04
		Training for small and medium scale contractors	-	-	-	0.02	-	-	0.03	-	-	0.03	-	-	0.08
		Review of Architects Decree NLCD,1969 357	-	-	-	0.15	-	-	-	-	-	-	-	-	0.15
		Staff Training	-	-	-	0.01	-	-	0.02	-	-	0.02	-	-	0.04
		Review of the Professional Practice Syllabus	-	-	-	0.03	-	-	-	-	-	-	-	-	0.03
		Monitoring of the KNUST and CUC schools of Architecture	-	-	-	0.01	-	-	0.01	-	-	0.02	-	-	0.04
		Publication / Gazetting of the registration of Architects and Architectural Firms	-	-	-	0.01	-	-	0.02	-	-	0.02	-	-	0.04
		Continuous Professional development (CPD) for Architects	-	-	-	0.02	-	-	0.02	-	-	0.03	-	-	0.06
		Rehabilitate, refurbish and maintain the existing office building of ARC	0.03	-	-	-	-	-	-	-	-	-	-	-	0.03
		Purchase of plant and Equipment	0.01	-	-	-	-	-	-	-	-	-	-	-	0.01
		Rehabilitation of Engineers Council Office building	0.03	-	-	0.03	-	-	0.03	-	-	0.03	-	-	0.12
		Purchase of office facilities and supplies	-	-	-	0.10	-	-	0.10	-	-	0.10	-	-	0.30
		Training of staff of the Engineers Council	-	-	-	0.03	-	-	0.03	-	-	0.03	-	-	0.09
		Ensure the incorporation of standardized building codes in the designs of building structures	-	0.11	-	-	0.11	-	-	0.13	-	-	0.13	-	0.48
		Specification of approved local construction materials in various designs	-	0.02	-	-	0.02	-	-	0.03	-	-	0.03	-	0.10
		Students' attachment programmes	-	0.02	-	-	0.02	-	-	0.02	-	-	0.02	-	0.07
		Financial support for professional bodies	-	0.02	-	-	0.02	-	-	0.03	-	-	0.03	-	0.09
		Incorporation of the use of Pozzolana cement in designs	-	0.21	-	-	0.36	-	-	0.42	-	-	0.42	-	1.40

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
		Education on the use of Pozzolana	-	0.01	-	-	0.01	-	-	0.01	-	-	0.01	-	0.03
		Conducting structural integrity test on both old and new buildings	-	0.40	-	-	0.50	-	-	0.75	-	-	0.83	-	2.48
		Valuations of land and buildings	-	0.24	-	-	0.25	-	-	0.26	-	-	0.26	-	1.01
		Capacity building for AESL staff	-	0.04	-	-	0.04	-	-	0.05	-	-	0.06	-	0.19
		TOTAL	0.07	1.07	-	0.53	1.33	-	0.35	1.68	-	0.37	1.77	-	7.14
PROGRAMME FOUR – INFRASTRUCTURE SECTOR MANAGEMENT															
	4.1 Works Sector Management	Develop an Action Plan for the implementation of the National Maintenance Policy	-	-	-	-	-	-	0.03	-	-	-	-	-	0.03
		Develop an Infrastructure (GoG landed properties, Drainage system and coastal) fund Policy	-	-	-	-	-	-	0.03	-	-	-	-	-	0.03
		Develop Regional and district drainage master plans	-	-	-	2.00	-	-	-	-	-	-	-	-	2.00
		Complete 150№ Keta Sea Defence Resettlement Housing Units	2.50	-	-	3.00	-	-	3.00	-	-	3.50	-	-	12.00
		Construct H. E. the President's Emergency Drainage Projects	4.03	-	-	10.00	-	-	11.50	-	-	12.00	-	-	37.53
		Implement the Annual National Flood Control programme	3.03	-	-	5.00	-	-	6.00	-	-	6.50	-	-	20.53
		Rehabilitate the existing ministerial block of offices	0.40	-	-	0.20	-	-	0.23	-	-	-	-	-	0.83
		Complete the extension of the new Ministerial Block of Offices	-	-	-	0.20	-	-	-	-	-	-	-	-	0.20
		Rehabilitate, refurbish and maintain the UNDP Blocks of Flats	-	-	-	-	-	2.50	-	-	-	-	-	-	2.50
		Complete the Korle Lagoon Ecological Restoration Project	-	-	-	-	-	-	2.50	-	-	-	-	-	2.50
		Construct the Winneba Storm Water Drainage System (Lot 1 & 2)	0.50	-	-	-	-	-	-	-	-	-	-	-	0.50
		Construct the Mamahuma Storm Water Drainage System	0.50	-	-	-	-	-	-	-	-	-	-	-	0.50
		Construct the Nima Storm Water Drainage System	0.50	-	-	-	-	-	-	-	-	-	-	-	0.50
		Purchase Saloon Vehicles for		-	-		-	-	-	-	-	-	-	-	

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)												TOTAL
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	
		Directors	0.36			-						-			0.36
		Provide Additional Funding for procured Cross Country vehicle	0.15	-	-										0.15
		Complete the Onyasia Upstream Storm Water Drainage System	1.00	-	-	30.00	-	-	16.40	-	-	-	-	-	47.40
		Rehabilitate GoG Ministerial Bungalows	0.50	-	-										0.50
		Design and Construct dredging and Channel Works and Bridge under the Meridian Gardens Development Klagon Project	-	-	16.00	-	-	16.80	-	-	18.48	-	-	-	51.28
		Monitored and Evaluated the Works Directorate programmes				0.20	-	-	0.23	-	-	0.25	-	-	0.68
TOTAL			13.46	-	16.00	50.60	-	19.30	39.92	-	18.48	22.25	-	-	180.01
	4.2 General Maintenance and Management	Renovate 150№ of Gov't bungalows	0.19	-	-	1.50	-	-	1.50	-	-	2.00	-	-	5.19
		Refurbish 30№ PWD regional offices	-	-	-	0.50	-	-	0.50	-	-	0.50	-	-	1.50
Total			0.19	-	-	2.00	-	-	2.00	-	-	2.50	-	-	6.69
	SP 4.3 Drainage Management	Construction of Sakaman drain lot I	-	-	-	0.40	-	-	-	-	-	-	-	-	0.40
		Construction of Sakaman drain lot II	-	-	-	0.30	-	-	-	-	-	-	-	-	0.30
		Construction of Goaso drain lot I	-	-	-	0.80	-	-	-	-	-	-	-	-	0.80
		Construction of Goaso drain lot II	-	-	-	0.60	-	-	-	-	-	-	-	-	0.60
		Construction of Goaso drain lot III	-	-	-	1.20	-	-	-	-	-	-	-	-	1.20
		Construction of Mim drain	-	-	-	0.10	-	-	-	-	-	-	-	-	0.10
		Extension of Nima Drain Ph I	-	-	-	5.50	-	-	5.50	-	-	-	-	-	11.00
		Storm-water drainage improvement works at Winneba lot I	0.01	-	-	0.10	-	-	-	-	-	-	-	-	0.11
		Storm-water drainage improvement works at Winneba lot II	-	-	-	0.75	-	-	-	-	-	-	-	-	0.75
		Akora River drainage project	-	-	-	11.60	-	-	11.60	-	-	-	-	-	23.20
		Construction of Asankragua drain	-	-	-		-	-	-	-	-	-	-	-	

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL		
			2014			2015			2016			2017				
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR	
		lot II	0.01			0.80						-				0.81
		Construction of Asankragua Lot III	-	-	-	1.00	-	-	-	-	-	-	-	-	-	1.00
		Construction of Tamale drain lot I	0.01	-	-	1.50	-	-	-	-	-	-	-	-	-	1.51
		Construction of Tamale drain lot II	-	-	-	1.50	-	-	-	-	-	-	-	-	-	1.50
		Construction of Kumawu drain lot I	-	-	-	0.80	-	-	-	-	-	-	-	-	-	0.80
		Construction of Kumawu drain lot II	0.01	-	-	0.80	-	-	-	-	-	-	-	-	-	0.81
		Construction of Ejura drain lot I	0.01	-	-	1.40	-	-	-	-	-	-	-	-	-	1.41
		Construction of Ejura drain lot II	-	-	-	1.40	-	-	-	-	-	-	-	-	-	1.40
		Construction of Tewa drain lot I	0.01	-	-	1.40	-	-	-	-	-	-	-	-	-	1.41
		Construction of Tewa drain lot II	-	-	-	1.40	-	-	-	-	-	-	-	-	-	1.40
		Construction of Swedru Drain	0.01	-	-	-	-	-	-	-	-	-	-	-	-	0.01
		Payment of land and crop compensation at Adjen Kotoku	0.25	-	-	-	-	-	-	-	-	-	-	-	-	0.25
		Construction of Plain concrete U-drain at Hwidiem - Lot I	-	-	-	1.50	-	-	-	-	-	-	-	-	-	1.50
		Construction of Plain concrete U-drain at Hwidiem - Lot II	-	-	-	1.50	-	-	-	-	-	-	-	-	-	1.50
		Construction of Reinforced rectangular concrete drain at Ofoase Kokoben	-	-	-	1.50	-	-	-	-	-	-	-	-	-	1.50
		Construction of Reinforced rectangular concrete drain at Tafo Lot I	-	-	-	3.20	-	-	-	-	-	-	-	-	-	3.20
		Construction of Reinforced rectangular concrete drain at Tafo Lot II	-	-	-	1.50	-	-	-	-	-	-	-	-	-	1.50
		Taifa Drainage project Lot I	-	-	-	0.12	-	-	-	-	-	-	-	-	-	0.12
		Taifa Drainage project Lot II	-	-	-	0.14	-	-	-	-	-	-	-	-	-	0.14
		Construction of Treatment Plant at Redco-Madina	-	-	-	0.40	-	-	-	-	-	-	-	-	-	0.40
		Maintenance of Teshie-Nungua Sewerage Treatment Plant	-	-	-	0.05	-	-	0.06	-	-	0.06	-	-	-	0.17
		Maintenance of Dansoman sewerage Treatment Plant	-	-	-	0.05	-	-	0.06	-	-	0.06	-	-	-	0.17
		Construction of Roman Ridge	-	-	-		-	-	-	-	-	-	-	-	-	

№	SUB-PROGRAMME	ACTIVITIES	INDICATIVE BUDGET (GH¢ Million)											TOTAL	
			2014			2015			2016			2017			
			GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF	DONOR	GOG	IGF		DONOR
		Sewerage System				1.50						-			1.50
		Rehabilitation of Ministries area sewerage system	-	-	-	1.80	-	-	-	-	-	-	-	-	1.80
		Maintenance of Labone sewerage system	-	-	-	0.05	-	-	0.06	-	-	0.06	-	-	0.17
		Total	0.30	-	-	46.66	-	-	17.28	-	-	0.18	-	-	64.42
	SP 4.4 Coastal Management	Dansoman Emergency Coastal Protection Works.	0.10	-	-	39.00	-	-	39.00	-	-	78.03	-	-	156.13
		Construction of Anomabu Sea Defence Project	0.10	-	-	-	-	-	-	-	-	-	-	-	0.10
		Construction of Ada Coastal (Phase II)	-	-	18.26	-	-	27.38	-	-	30.12	-	-	33.13	108.89
		Construction of New Takoradi Sea Defence Project	0.15	-	-	-	-	-	-	-	-	-	-	-	0.15
		Aboadze Coastal Protection Works	3.00	-	-	35.63	-	-	35.63	-	-	71.25	-	-	145.50
		Atorkor - Dzita – Anyanui Sea Defence Project PH III	5.00	-	-	29.00	-	-	30.00	-	-	30.00	-	-	94.00
		Sakumono Sea defence Protect PH II	9.00	-	-	50.00	-	-	50.00	-	-	100.00	-	-	209.00
		Ngyiresia Sea Defence Project	9.00	-	-	29.00	-	-	29.00	-	-	57.50	-	-	124.50
		Adjoa (Near Takoradi) Coastal Protection Works	1.00	-	-	15.00	-	-	17.25	-	-	19.84	-	-	53.09
		Amanful Kumah Coastal Protection Works	1.00	-	-	20.00	-	-	23.00	-	-	26.45	-	-	70.45
		Nkontompo/New Takoradi Coastal Protection Works.	0.19	-	-	28.75	-	-	28.75	-	-	57.50	-	-	115.19
		Total	28.55	-	18.26	246.38	-	27.38	252.63	-	30.12	440.57	-	33.13	1,077.00
	SP 4.5 Operational Hydrology	Renovation of 75 river gauging stations and changing of automatic water level recorders	-	-	-	1.10	-	-	0.80	-	-	1.00	-	-	2.90
		Installation and maintenance of Telemetry systems	-	-	-	1.00	-	-	0.80	-	-	0.60	-	-	2.40
		Rehabilitated and Maintained 20 medium scale sewage treatment plants countrywide	0.15	-	-	-	-	-	-	-	-	-	-	-	0.15
		Total	0.15	-	-	2.10	-	-	1.60	-	-	1.60	-	-	5.45
		GRAND TOTAL	63.85	161.95	435.66	476.75	402.78	5,947.90	451.70	348.92	4,741.74	572.90	185.99	3,503.17	17,293.31

5.2.1 2014 ANNUAL ACTION PLAN

PROGRAMME ONE – GENERAL ADMINISTRATION AND MANAGEMENT

1.1 GENERAL ADMINISTRATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Improve the human and institutional capacities of the relevant institutions.	Procure office facilities and supplies for the Ministry	Accra					0.75	-	-	Gen. Admin Directorate	Sector Directorates
TOTAL								0.75	-	-		

1.2 FINANCE

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Ensure secure, adequate and sustainable financing	Implement measures to increase financial and investment absorptive capacity of the sector	Printed Materials and Stationary for the Finance Diretorate	Accra					0.005	-	-	Finance Directorate	Sector Directorates, Departments and Agencies
		Purchase of 3Nº Safes	Accra					0.050	-	-	Finance Directorate	Sector Directorates, Departments and Agencies
TOTAL								0.055	-	-		

1.3 HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Support technical education institutions and other professional bodies to train more human resources required for planning and the construction sector	Capacity of ThirtyFive (35) Staff developed in PPP Skills	Accra					0.047	-	-	HRMD	Directorates, Department and Agencies, JICA
		Scheme of Service Training at GIMPA, Civil Service Training Center, MDPI, and other Private Training Providers attended by Thirty (30) Staff	Accra					0.022	-	-		
		Counterpart Funding for Japanese Grant for developing Geographic Information System Database for Mapping	Accra					0.015	-	-		

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
		Government Housing Units countrywide completed										
		Executive Development programmes implemented	Accra					0.028	-	-		
TOTAL								0.222	-	-		

1.4 POLICY PLANNING, BUDGETING, MONITORING AND EVALUATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
Ensure secure, adequate and sustainable financing	Adopt appropriate strategies for marketing sector strategic plans	Organise Mid-year review of annual budget performance	Accra					0.042	-	-	PPBME Directorate	Directorates, Departments and Agencies, MoF, MLGRD, NDPC, MMDA's, Private Sector
		Undertake Impact Assessment of the Keta Sea Defence Project	Keta					0.060	-	-		
		Undertake Impact Assessment of the Koforidua Water Project (Phase I & II)	Koforidua					0.040	-	-		
		Undertake Impact Assessment of the Atorkor-Dzita-Anyanui Sea Defence Project (Phase I & II)	Atorkor, Dzita, Anyanui					0.040	-	-		
		Organise an Annual review of the Sector Medium Term Development Plan	Accra					0.043	-	-		
		Purchase of 2N _o Pick0up vehicles for Monitoring	Accra					0.150	-	-		
TOTAL								0.477	-	-		

1.5 RESEARCH, STATISTICS AND INFORMATION MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Improve the human and institutional capacities of the relevant institutions	Establish an effective and efficient Information Management System	Accra					0.045	-	-	RSIM	Directorates, Departments and Agencies, MoIML, Private Sector
		Review and publish the existing MWRWH Hand Out	Accra					0.013	-	-		
		Organise the National Policy Fair	Accra					0.016	-	-		
		Review the Ministry's Service Charter	Accra					0.013	-	-		
TOTAL								0.164	-	-		

PROGRAMME TWO - WATER AND SANITATION MANAGEMENT

2.1 WATER SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
Adopt a sector-wide approach to water and environmental sanitation delivery.	Develop and implement a comprehensive M&E for the water and sanitation sector	Develop a comprehensive M & E Framework for the water sector	Accra					0.003	-	-	Water Directorate	MDA's, MMDA's, GWCL, CWSA, WRC, CONIWAS, WaterAID, Donor Partners
		Review the existing National Water Policy	Accra				0.004	-	-			
	Develop and implement a Strategic Sector Development Plan	Develop Rainwater Harvesting Strategy	Accra				0.004	-	-			
		Organise the Annual Ghana Water Forum	Accra				0.031	-	-			
		Prepare publications and Annual Reports	Accra				0.001	-	-			
		Organise SWAp workshops (i.e. Gender, CSO, Risk Assessment, etc)	Accra				0.002	-	-			
		Organise Sector working group meetings	Accra				0.001	-	-			
TOTAL								0.121	-	-		

2.2 WATER RESOURCES MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
Ensure efficient management of water resources	Assess ground water resources to enhance water availability	Support and manage Local transboundary projects	Nationwide					-	0.136	-	WRC	MMDAs, FC, MDAs, MLGRD, EPA, NGOs, CSOs CSIR, GAEC, HSD, Gmet
		Enhance co-operation within Riparian States Issues	Nationwide				-	0.159	-			
		Improve Water resources assessment for decision making	Nationwide				-	0.120	-			
		Enhance awareness in water management issues	Nationwide				-	0.224	-			
		Put in Place an Effective Water Resources Management	Nationwide				-	0.145	-			
		Initiate the Implementation of the Buffer Zone policy	Nationwide				-	0.188	-			
		Establish a functioning dam safety unit	Nationwide				-	0.158	-			

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
		Improve the capacity to manage water resources	Accra					-	0.148	-		
		Improve internal MIS and knowledge system	Accra					-	0.153	-		
		Set up Basin Offices and Develop an integrated Water Resources Management (IWRM) plans	Nationwide					-	1.692	-		
TOTAL								0.491	3.806	-		

2.3 URBAN WATER MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate safe and affordable water	<ul style="list-style-type: none"> Mobilize investments for the construction of new, and rehabilitation and expansion of existing water treatment plants Ensure efficient management of assets. Implement demand management measures for efficient water use Encourage Private-Partner Partnerships in water services delivery Strengthen the sub-sector management systems for efficient 	Urban Water Project	Nationwide					-	-	1.796	GWCL	WRC, PURC, CWSA, MMDA's
		ATMA Water Supply System (South of Kpong)	Kpong					-	-	6.615		
		ATMA Water Supply System (North of Kpong)	Kpong					-	-	3.319		
		Koforidua Water Supply Phase III (Tafo Water Supply)	Koforidua					-	-	4.205		
		3K Water Supply Project	Konongo, Kwawu, Kumawu					-	-	38.567		
		Kpong Water Supply Expansion Project	Kpong					-	-	49.832		
		Rehabilitation of Kpong Pumping Station (State to State)	Kpong					-	-	8.975		
		Damongo Water Supply Project	Damongo					-	-	2.777		
		Essakyir WaterSupply Project	Essakyir					-	-	3.989		
		Essakyir WaterSupply Project (State to State)	Essakyir					-	-	8.975		
		Rehabilitation of Kpong Pumping Station	Kpong					-	-	6.048		

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
	service delivery	3K Water Supply Project (Phase II)	Konongo, Kwawu, Kumawu					-	-	34.133		
		Improvement of Water Treatment Plants (Five Towns)						-	-	4.930		
		Akim Oda, Akwatia and Winneba Water Supply Project	Akim Oda, Akwatia, Winneba					-	-	54.504		
		Wa Water Supply and Expansion Project	Wa					-	-	39.890		
		Tamale Water Supply System rehabilitated and expanded by 31st December, 2014	Tamale					-	-	15.541		
		Urban Water Project (Additional Financing)	Nationwide					-	-	9.972		
		Sekyere-Herman-Brimsu pipeline interconnection to improve water supply to Cape Coast, Takoradi and surrounding areas completed by 31st December, 2014	Sekyere, Herman, Brimsu					0.700	-	-		
		Payment of land and crop compensation completed by 31st December, 2014	Nationwide					0.583	-	-		
		TOTAL						1.283	-	294.070		

2.3 RURAL WATER MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate, safe and affordable	<ul style="list-style-type: none"> • Ensure sustainable funding for rural water delivery. • Develop and 	Drill 1,760 new boreholes for rural communities countrywide	Nationwide					8.000	-	-	CWSA	MMDAs, MWRWH Private sector
		Construct 31 small towns pipe systems for rural communities countrywide	Nationwide					-	-	8.295		

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
water	manage alternative sources of water, including rain water harvesting • Adopt cost effective borehole drilling mechanisms • Establish cost effective mechanism for water quality monitoring and purification schemes • Strengthen Public-Private Partnerships in water provision	Implement the Sustainable water and sanitation project	Nationwide					-	-	10.488		
		Implement the Northern Region Small Towns Water and Sanitation Project	Nationwide					-	-	3.989		
		Implement the CWSA Local Service Delivery Governance	Nationwide					-	-	4.587		
		Support to Climate Change	Nationwide					-	-	0.658		
		Implement the KOICA Water supply and sanitation project in Kraqchi East and West Districts	Krachi East, Krachi West					-	-	6.824		
		Implement the Sanitation and Water in Small Towns and Rural Areas (SAWiSTRA)	Nationwide					-	-	6.073		
		Implement the Four Constituencies water supply project	North Tongu, Adaklu, Anyingbe					-	-	8.204		
		Implement the Four Constituencies water supply project (Phase II)	North Tongu, Adaklu, Anyingbe					-	-	6.396		
		Implement Water and Sanitation Programmes	Nationwide					-	-	7.072		
SUB TOTAL (RURAL WATER MANAGEMENT)								12.510	-	62.586		

PROGRAMME THREE – HUMAN SETTLEMENT DEVELOPMENT

3.1 HOUSING SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule							Implementing Agencies	
				1st	2nd	3rd	4th	GOG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Develop a national housing policy	Create 50,000 acres of Land Banks	Nationwide					0.010	-	-	Housing Directorate	MMDAs, GREDAs, GIAs, GhIE, Private Sector
		Review the Building Code and Regulation	Accra					0.020	-	-		
	Support the creation of land Banks	Implement the Security Services Housing Programme (BNI Housing Project , etc)	Accra					10.000	-	-		
		Conclude the review of the Draft National Housing Policy and Strategy	Accra					0.017	-	-		
		Adopt and enforce the reviewed national building codes	Saglemi					-	-	44.736		
SUB TOTAL (HOUSING SECTOR MANAGEMENT)								10.155	-	44.736		

5.2.2 2015 ANNUAL ACTION PLAN

PROGRAMME ONE – GENERAL ADMINISTRATION AND MANAGEMENT

1.1 GENERAL ADMINISTRATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Improve the human and institutional capacities of the relevant institutions.	Procure office facilities and supplies for the Ministry	Accra					0.802	-	-	Gen. Admin Directorate	Sector Directorates
TOTAL								1.802	-	-		

1.2 FINANCE

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Ensure secure, adequate and sustainable financing	Implement measures to increase financial and investment absorptive capacity of the sector	Prepare quarterly financial reports	Accra					0.004	-	-	Finance Directorate	Sector Directorates, Departments and Agencies
		Prepare Annual financial reports	Accra					0.002	-	-	Finance Directorate	Sector Directorates, Departments and Agencies
		Train staff in advanced Microsoft excel applications	Accra					0.020	-	-	Finance Directorate	HR Directorate
TOTAL								0.026	-	-		

1.3 HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Ensure the adequate staffing, upgrading of relevant skills and enhance the equipment base of institutions	Develop and retain human resource capacity at national, regional and district levels	Improve capacities of Heads of Directorate, Departments and Agencies and their HR officers in Performance Management.	Accra					0.030	-	-	HR Directorate	Sector Directorates, Departments and Agencies
		Conduct Sector wide skills development training in GoG rules and regulations for HR and Personnel Officers	Accra					0.028	-	-	HR Directorate	Sector Directorates, Departments and Agencies
		Participate in executive development programmes for Directors	Worldwide					0.030	-	-	HR Directorate	Sector Directorates,
		Train Directors, Heads of Departments and Agencies in Public private partnerships management	Accra					0.030	-	-	HR Directorate	Sector Directorates, Departments and Agencies
		Undertake Scheme of service development programmes.	Accra					0.035	-	-	HR Directorate	Directorates,
TOTAL								0.153	-	-		

1.4 POLICY PLANNING, BUDGETING, MONITORING AND EVALUATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Improve Sector institutional capacity.	Enhance the capacities of Institutions for effective planning of human settlements	Organize Mid-year review of annual budget performance	Accra					0.050	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
		Organize Annual review of the Sector Medium Term Development Plan	Accra					0.040	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
		Organize Annual review of the Sector Monitoring and Evaluation Plan	Accra					0.040	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
		Implement the M&E Action plan	Nationwide					0.100	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
		Prepare Annual progress reports	Accra					0.005	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
		Prepare quarterly budget performance reports	Accra					0.005	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
Ensure secure, adequate and sustainable financing	Implement measures to secure adequate GoG annual budgetary allocation for the sector	Prepare Annual Budget Estimates for ensuing year	Accra					0.025	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
TOTAL								0.265	-	-		

1.5 RESEARCH, STATISTICS AND INFORMATION MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
		Publishing of Quarterly Sector Newsletter	Ministry					0.004	-	-	RSIM	Directorates, Departments and Agencies
		Participation in Meet- the- Press-Series	Ministry					0.010	-	-	RSIM	MoIMR, Directorate, Departments and Agencies
		Research/Impact Assessment on Relevant Policies and Programmes	Ministry					0.060	-	-	RSIM	Directorates, Departments and Agencies
		Preparation and Submission of Annual Performance Report to OHCS	Ministry					0.001	-	-	RSIM	OHCS, Directorates, Departments and Agencies

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
		Public Sensitization on Policies and Programmes by Hon. Minister and Deputies	Ministry					0.030	-	-	RSIM	Directorate, Departments and Agencies
		Policy Research and Data Collation and Compilation for Decision making and Policy Formulation	Ministry					0.025	-	-	RSIM	Directorates, Departments and Agencies, CBO's, NGO's, DP's
		Rehabilitation of Information Centre/Library	Ministry					0.055	-	-	RSIM	
		Facilitated Training of staff in the use of ICT and Client Service	Ministry					0.045	-	-	RSIM	HRM
Increase access to adequate, safe, secure and affordable shelter	Improve the human and institutional capacities of the relevant institutions.	Develop a new ICT Policy	Ministry					0.005	-	-	RSIM	
		Review existing and Develop New Sector publications (Sector Handbook, Service Brochure, Ministry's Service Charter)	Ministry					0.015	-	-	RSIM	Directorates, Departments and Agencies
		Participation in National/ Regional Policy Fairs and International Fairs	Ministry					0.030	-	-	RSIM	MoIMR, Directorates, Departments and Agencies
		Organisation of Press releases/Radio/TV discussions	Ministry					0.030	-	-	RSIM	Directorates, Departments and Agencies, Media Organisations
		Maintenance of Ministry's Website, LAN/WAN	Ministry					0.010	-	-	RSIM	Directorates, Departments and Agencies, NITA
		Conduct Beneficiary/Clients Service Surveys	Ministry					0.003	-	-	RSIM	
		Upgrade facilities and Information Materials in Ministerial Library/Resource Centre	Ministry					0.001	-	-	RSIM	
		Collation/Compilation of Conventions, Protocol Agreements, Statutory Acts, ,MOU's and Contracts	Ministry					0.001	-	-	RSIM	Directorates, Departments and Agencies
		Update information on Conventions, Statutory Acts, ,MOU's and Contracts	Ministry					0.001	-	-	RSIM	Directorates, Departments and Agencies
		Set-up Client Service Unit	Ministry					0.050	-	-	RSIM	Directorates, Departments and Agencies
TOTAL								0.375				

1.6 INTERNAL AUDIT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
1. Promote transparency and accountability and reduce opportunities for rent seeking	1.1 Enforce the implementation of the Public Procurement Act, Internal Audit Agency Act and other Financial Management Regulations	Conduct financial audit	Ministry					0.006			IAU	Finance Directorate
		Organize ARIC meetings	Ministry					0.022			IAU/ARIC Secretariat	Directorate, General Administration
		2 officers to attend training on Report writing and information gathering skills	Ministry					0.003			IAU	IAA
		Verification and inspection of projects	Ministry					0.032			IAU	PPBME Directorate
		Conduct procurement and stores management Audit	Ministry					0.003			IAU	G/A
		One officer to attend International Conference	Ministry					0.020			IAU	IIA
		2 Officers to attend training in project auditing	Ministry					0.004			IAU	IAA
		Follow-up on previous audit by IAU and GAS	Ministry					0.006			IAU	G/A
		Conduct Asset Management audit	HSD/ RCD					0.005			IAU	G/A
		Conduct management/ operational audit	DRH					0.003			IAU	G/A
		Prepare 2016 budget and audit plans	Ministry					0.002			IAU	PPBME
		Develop a Risk register for the Ministry	Ministry					0.015			IAU	RSIM
TOTAL								0.120				

2.0 PROGRAMME TWO - WATER AND SANITATION MANAGEMENT

2.1 WATER SECTOR MANAGEMENT

POLICY OBJECTIVE	STRATEGY	Indicative Activities	Location	Quarterly Time Schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborator
To accelerate the provision of adequate, safe and affordable water	Implement measures for effective operation and maintenance, system upgrading, and replacement of water facilities.	Facilitate the review of technology options for rural and small towns water supply to make them more affordable and disability friendly	Nationwide					0.20			WD	CWSA, IRC, CSIR

POLICY OBJECTIVE	STRATEGY	Indicative Activities	Location	Quarterly Time Schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborator
	Strengthen the sub-sector management systems for efficient service delivery	Facilitate the review of technology options for urban water supply to make them more affordable and disability friendly	Nationwide					0.20			WD	GWCL, IRC, CSIR
	Strengthen the sub-sector management systems for efficient service delivery	Coordinate a functionality study to compile database on all water facilities to inform planning on replacement/major rehabilitation of water facilities	Nationwide					0.50			WD	CWSA, GWCL, PSP, PPBME, RSIM
	Establish and operationalize mechanisms for water quality monitoring	Coordinate the development of a national water safety plan (to clarify safety standards for water service, river basin management and responsible institutions)	Nationwide					0.10			WD	CWSA, WRC, GWCL, FDA, GSA, PURC
		Collaborate, lead and monitor the quality of water across the country	Nationwide					0.10			WD	CWSA, WRC, GWCL, FDA, GSA, PURC, EHSD
To ensure the development and implementation of health education as a component of all water and sanitation programmes	Promote behavioral change(hand washing with soap, household water treatment and safe storage, safe excreta disposal) for ensuring Open Defecation-Free Communities	Monitor the implementation of PPP framework on hand washing with soap at community and DA level.	Nationwide					0.15			WD	CWSA, EHSD, UNICEF, PSP
		Coordinate the Implementation of national household water treatment and safe storage strategy	Nationwide					0.05			WD	CWSA, EHSD, UNICEF, PSP
To adopt a sector-wide approach to water and environmental sanitation delivery	Develop and implement a Strategic Sector Development Plan. Develop and implement a comprehensive M&E for the water and sanitation sector.	Strengthen the Institutional capacity of the WD	Nationwide					0.30			WD	HRMD, MoF, OHCS
		Review the National Water Policy to address emerging challenges and clarify mandates and roles among stakeholders	Nationwide					0.20			WD	CWSA, WRC, GWCL, Sector Stakeholders
		Lead the development of a comprehensive M&E Framework for the WASH Sector	Nationwide					0.15			WD	CWSA, GWCL, WRC, PSP, PPBME, RSIM
	Incorporate cross-cutting themes such as: gender, environment, public sector reform, decentralization and governance in the implementation of SWAP	Establish an MIS Unit within the Water Directorate to track progress within the WASH Sector	Nationwide					0.30			WD	PPBME, RSIM
		Lobby to ensure that adequate logistics and budgetary support are	Nationwide					0.07			WD	CWSA, GWCL, WRC, MoF,

POLICY OBJECTIVE	STRATEGY	Indicative Activities	Location	Quarterly Time Schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborator
		provided for WASH activities of District Works Departments in all MMDAs										MLGRD
		Support all DAs to pass and gazette bye-laws to legalize WSMTs	Nationwide					0.10			WD	MLGRD
		Facilitate review/update of DWSPs as part of the process for preparing DMTDPs in all MMDAs	Nationwide					0.30			WD	MLGRD
		Institute annual auditing of the accounts of WSMTs by MMDAs	Nationwide					0.60			WD	MLGRD, GAS
		Publish annual statement of accounts of CWSA, GWCL and WRC in the national dailies	Nationwide					0.01			WD	CWSA, GWCL, WRC, GAS, MoF, CAGD
		Establish and operationalize level learning alliance platforms in all regions	Nationwide					0.30			WD	RCN, IRC, GWCL, CWSA, WRC
		Facilitate signing of MoU including risks and sanctions on SWAp	Nationwide					0.03			WD	MLGRD, MoF
		Establish an Inter-Ministerial Steering Committee (IMSC) for water	Nationwide					0.05			WD	MLGRD, MoF
		Institutionalize monthly sector working group meetings	Nationwide					0.02			WD	MLGRD- EHSD, MoF
		Monitor the implementation of the activities outlined in the SSDP to inform policy	Nationwide					0.10			WD	CSWSA, GWCL, WRC, EHSD
		Coordinate the development of strategic policy framework for rainwater harvesting	Nationwide					0.15			WD	WRC, CWSA, GWCL, STEPRI
		Facilitate the county's financial contribution, participation and implementation in international programmes and plans (e. g. VBA, GEF-Volta, GWP/WA and AMCOW)	Nationwide					0.20			WD	WRC, MoF
		Set up a national M&E coordination group for the sector with clear terms of reference	Nationwide					0.05			WD	Sector Stakeholders
		Ensure the setting up and resourcing of M&E units at GWCL, WRC and CWSA to provide regular update on agreed sector indicators.	Nationwide					0.02			WD	GWCL, CWSA, WRC
		Design and implementation of framework for collaborating with	Nationwide					0.06			WD	MGCSP, MLGRD

POLICY OBJECTIVE	STRATEGY	Indicative Activities	Location	Quarterly Time Schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborator
		MGCSP in WASH delivery										
		Lead the organisation of the Annual Ghana Water Forum	Nationwide					0.20			WD	Sector Stakeholders
		Lead in the design and publications of the following reports: Annual Reports (WASH Annual report, Water focus, Ghana Water Forum report, Ghana Water Forum Journal etc) prepared	Nationwide					0.15			WD	CWSA, GWCL, WRC, EHSD
		Coordinate the organization of the Annual Inter School Quiz competition	Nationwide					0.15			WD	CWSA, GWCL, WRC, EHSD, GES
		Ensure the rolling out of the DiMES software in all MMDAs	Nationwide					0.03			WD	CWSA, MLGRD
To ensure secure, adequate and sustainable financing		Carry out quarterly review of water tariffs in accordance with PURC's automatic adjustment formulae	Nationwide					0.03			WD	PURC, GWCL, MoF
		Ensure the implementation of the framework on private sector participation in the water sector including financing (BOO, BOT etc.)	Nationwide					0.01			WD	MoF
		Develop appraisal and adoption of financing mechanism for capital maintenance	Nationwide					0.08			WD	MoF, CWSA, GWCL
		Purchase three (3) cross country vehicles to support monitoring and coordination activities of the Directorate	Nationwide					0.24			WD	MoF
To improve sector institutional capacity	Strengthen the capacity of the Water Directorate.	Ensure the routine training for WATSAN C'tees, WSMTs, Pump Caretakers and Area Mechanics	Nationwide					0.10			WD	CWSA, MLGRD
	Build the capacity of district assemblies to better manage water resources as well as water and environmental sanitation.	Provide technical support to CONIWAS to track sector investments and report on NGO contributions to the sector	Nationwide					0.10			WD	GWCL, WRC, CWSA
		Provide adequate resources for sector learning platforms and extend learning alliance platforms to the regional levels	Nationwide					0.03			WD	MoF, DPs
	Enhance the mandate and capacity of lead sector agencies (WRC, GWCL, and CWSA) facilities.	Provide support for research on sector issues	Nationwide					0.10			WD	MoF
		Participate in Annual WASH conferences and Fora around the	Nationwide					0.10			WD	MoF

POLICY OBJECTIVE	STRATEGY	Indicative Activities	Location	Quarterly Time Schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborator
				World								
		Capacity building and training of the Water Directorate Staff	Nationwide					0.20			WD	MoF
TOTAL								5.83				

2.2 WATER RESOURCES MANAGEMENT

Adopted objectives	Adopted strategies	Projects	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Ensure efficient management of water resources	1. Support relevant state agencies, District Assemblies and local communities to undertake reforestation programme for water sheds protection	1. Implement pilot schemes to introduce harmonized protected land strips/areas along open water bodies. 2. Initiate the development of Legislative Instrument on the policy.	Nationwide					-	0.217	-	WRC	MMDAs, FC, MDAs, MLGRD, EPA, NGOs, CSOs
	3. Set up mechanisms and measures to support encourage and promote rainwater harvesting.	1. Facilitate incorporation of rainwater harvesting into the national building code. 2. Promote research results on rainwater harvesting in urban dwellings and institutions	Nationwide					-	0.150	-	WRC	MRWWH, CWSA, CSIR, MDAs
	4. Improve access to water resources knowledge base to facilitate water resources planning and decision making	1. Guide and obtain data on river flows in selected basins. 2. Carrying out sustained monitoring of groundwater resources. 3. Carry out ecological monitoring of water bodies. 4. Undertake monitoring and analysis of raw water quality.	Nationwide					-	0.138	-	WRC	CSIR, GAEC, HSD, Gmet
	5. Continue establishment of functional management structures for selected major river basins	1. Complete the setup of the Birim and Black Volta Basin offices and Boards 2. Identify 2 new priority basins and initiate the establishment of their basin offices and Boards	Birim and Black Volta Basins					-	1.142	-	WRC	RCCs, MMDAs, MLGRD
	6. Promote climate change adaptation in water resources management for water security and improved livelihoods	1. Undertake improvement of the FEWS Volta for more accurate flood forecasting information. 2. Increase the technical capacities of WRC, HSD, and GMet for flood forecasting.	Northern Region						-	2.000	WRC	HSD, GMet, NADMO, MMDAs

Adopted objectives	Adopted strategies	Projects	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
		3. Develop and make available detailed flood risk information to the District Assemblies for district planning.										
	7. Enhance trans-boundary water resources cooperation and management	1. Facilitate the ratification of UN Watercourses Convention 2. Organize technical meetings/activities of the Ghana-Burkina Joint Technical Committee on IWRM 3. Facilitate Ghana's participation in activities/initiatives of the Volta Basin Authority 4. Facilitate Ghana's inputs for the establishment of international organization for the Comoe-Tano-Bia River Basins.	Nationwide					-	0.324	-	WRC , MWR WH	AGD, MFA, MFEP, Parliament
	8. Strengthen the regulatory framework for managing and protecting water resources for water security	1. Administer and monitor compliance of the Water Use Regulations (LI 1692) and Drilling License and Groundwater Development Regulations (LI 1827) 2. Initiate the administration of the Dam Safety Regulations. 3. Complete the set up a National Dam Safety Unit and make it functional.	Nationwide					-	0.350	-	WRC	EPA, MMDAs, HSD, VRA, GIDA, CSIR, GMet, GWCL
	9. Enhance public awareness and education in water resources management.	1. Undertake educational campaigns including documentaries and media programs 2. Train collaborative agencies. 3. Develop and disseminate educational materials. 4. Organize notable events including World Water Day	Nationwide					-	0.300	-	WRC	MMDs, Media, NGOs
	10. Promote scientific investigations in research in water resources assessment, development and management	1. Promote further hydrogeological investigations nationwide 2. Carry out research on strategies for adaptation to climate change 3. Produce technically and economically feasible reoperation and re-optimization plan for Akosombo and Kpong dams.	Nationwide, Akosombo and Kpong					-	-	1.870	WRC	CSIR, GAEC, UG, EPA, VRA, MWRWH, MOFA, CWSA
	11. Ensure the preparation and implementation of river basin and	1. Develop project profiles for the Pra, Tano and Dayi river basins and national	Nationwide					-	0.633	-	WRC	MMDAs, NGOs, FC,

Adopted objectives	Adopted strategies	Projects	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
	national IWRM plans and strategies	IWRM plans. 2. Review Ankobra and White Volta basin IWRM plans 3. Develop IWRM plans for new priority basins 4. Implement actions on the developed basin and national IWRM Plans										MLGRD, CSOs, GWCL, MC
	12. Develop and enhance human and institutional capacities for the efficient and effective governance of water resources	1. Undertake staff needs and training programs/events 2. Continue with implementation of the Gender and WRM strategy (2011-2015). 3. Undertake institutional capacity actions including functional website and library	Accra, Koforidua, Kumasi, Tarkwa, Bolgatanga, Sunyani					-	0.302	-	WRC	DPs, Private Sector
	13. Develop and implement incentive mechanisms such as payment for ecosystem services for water resources management	1. Undertake a desired state study using the Pra and Kakum basins as pilots 2. Define the framework for introducing PES. 3. Implement PES on pilot basis in the Pra and Kakum basins	Pra and Kakum basins					-	0.100	0.400	WRC	EPA, FC, MC, HSD, CSIR, GWCL, Gmet, MMDAs, CSOs, NGOs, Private Sector
TOTAL								-	3.654	4.270		

2.3 URBAN WATER MANAGEMENT

Adopted objectives	Adopted strategies	Projects	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate safe and affordable water	1. Mobilize investments for the construction of new, and rehabilitation and expansion of existing water treatment plants	Kpong Water Supply Expansion	Kpong for Accra and Tema Metropolis					18.00		44.024	GWCL	WRC, PURC, CWSA
		Essakyir Water Supply - Additional works,	Gomoa and Ekumfi areas					0.20			GWCL	WRC, PURC, CWSA, MMDA's
		Nsawam Water Project Phase 2,	Nsawam					0.30		6.300	GWCL	WRC, PURC, CWSA, MMDA's,
		Kumasi Water Supply Addendum,	Barekese					0.83		33.556	GWCL	WRC, PURC, CWSA, MMDA's
		Kumawu, Konongo, Kwahu Ridge Water Project	Konongo, Kumawu, Kotoso (Kwahu Ridge)					0.50		202.185	GWCL	WRC, PURC, CWSA, MMDA's

Adopted objectives	Adopted strategies	Projects	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
		Akim Oda, Akwatia, Winneba WSP	Akim Oda, Akwatia, Winneba					0.50		119.302	GWCL	WRC, PURC, CWSA, MMDA's
		Upper East Region WSP	Bolgatanga, Navrongo					0.35		54.756	GWCL	WRC, PURC, CWSA, MMDA's
		Sunyani Water Supply	Sunyani					0.40		276.982	GWCL	WRC, PURC, CWSA, MMDA's
		Damongo WSP	Damongo					0.35		387.504	GWCL	WRC, PURC, CWSA, MMDA's
		Agordome Assin Fosu WSP	Sogakope - Agordome Assin Fosu					0.30		129.676	GWCL	WRC, PURC, CWSA, MMDA's
		Cape Coast Water Supply - Addendum	Cape Coast					0.40		29.250	GWCL	WRC, PURC, CWSA, MMDA's
		Sekondi Takoradi Water Supply Project	Sekondi Takoradi					1.00		366.145	GWCL	WRC, PURC, CWSA, MMDA's
		Essiama Enclave WSP	Atuabo, Dominase Essiama					1.00		398.126	GWCL	WRC, PURC, CWSA, MMDA's
		Dormaa Ahenkro, Berekum and Suhum Water Supply Project	Dormaa Ahenkro, Berekum Suhum					0.40		340.225	GWCL	WRC, PURC, CWSA, MMDA's
		16. Keta Water Supply Project	Keta					0.42		106.168	GWCL	WRC, PURC, CWSA, MMDA's
		Aflao, Abor and Agbozume Water Supply Project	Aflao, Abor Agbozume					0.30		113.648	GWCL	WRC, PURC, CWSA, MMDA's
		Kpeve Water Supply Project	Kpeve, Tsito					0.25		166.986	GWCL	WRC, PURC, CWSA, MMDA's
		Water Project For Rehabilitation of Existing Works and Expansion Works	Obuasi, Achirensua, Dwomo, Begoro, Yendi, Agordome, Akwatia, Berekum, Dormaa Ahenkro					1.17		453.331	GWCL	WRC, PURC, CWSA, MMDA's
		Wa Water Supply Expansion Project	Wa Municipality					0.50		39.334	GWCL	WRC, PURC, CWSA, MMDA's
		Yendi Water Supply Project	Yendi					0.30		35.000	GWCL	WRC, PURC, CWSA, MMDA's
		Tamale Water Supply Project	Tamale					0.40		196.499	GWCL	WRC, PURC, CWSA, MMDA's
		Kpong - Accra Transmission Pipeline + Expansion of 6.6MGD	Kpong					1.17		129.755	GWCL	WRC, PURC, CWSA, MMDA's
		Techiman Water Supply	Techiman					0.50		81.388	GWCL	WRC, PURC,

Adopted objectives	Adopted strategies	Projects	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
		Project										CWSA, MMDA's
		Accra and Kumasi Distribution Network Strengthening	Accra Kumasi					0.83		175.000	GWCL	PURC, CWSA, MMDA's
Accelerate the provision of adequate safe and affordable water	2. Ensure efficient management of assets, including water sources	Installation of Electromechanical Equipment	All the ten regions							204.750	GWCL	PURC, CWSA, MMDA's
		Weija Fencing and Catchment restoration	Weija					2.17		2.641	GWCL	WRC, PURC, CWSA, MMDA's
		3Aquatic Weed clearing on Kpong, Weija, Tanoso, Owabi, Barekese, Brimsu, Kwanyaku	Kpong, Weija, Tanoso, Owabi, Barekese					1.50		1,109.063	GWCL	WRC, PURC, CWSA, MMDA's
Accelerate the provision of adequate safe and affordable water	3. Implement demand management measures for efficient water use	Services for the Enhancement of Nationwide Water Network Management (GIS Nationwide Project)	All the ten regions							17.550	GWCL	PURC, CWSA, MMDA's
Accelerate the provision of adequate safe and affordable water	4. Encourage Public-Private Partnerships in water services delivery	Teshie Desalination (PPP)	Teshie - Nungua					0.83		1.523	GWCL	WRC, PURC, CWSA, MMDA's
		Asutsuare Water PPP	Greater Accra Metropolitan Area					1.17		2.133	GWCL	WRC, PURC, CWSA, MMDA's
		Sogakope - Lome WSP	Lome, Sogakope Lome					1.07		-	GWCL	WRC, PURC, CWSA, MMDA's
		Cape Coast Water Supply - Additional works	Aboadze,					0.40		27.421	GWCL	WRC, PURC, CWSA, MMDA's
	5. Strengthen the sub-sector management systems for efficient service delivery	Establishment of District office	All the ten regions					1.00		1.828	GWCL	PURC, CWSA, MMDA's
		Installation of Prepaid Metering	All districts							17.063	GWCL	PURC, CWSA, MMDA's
TOTAL								38.50	-	4,812.17		

2.4 RURAL WATER MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate, safe	Increase access to potable water	Construct 1500 ⁿ Boreholes	Nationwide					10.00	-	30.00	CWSA	MMDAs, MWRWH Private sector

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies		
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating	
and affordable water		Rehabilitate 40N ^o Boreholes						0.57	-	-	CWSA	MMDAs, MWRWH Private sector	
		Rehabilitate 10N ^o Pipe Scheme						9.00	-	-	CWSA	MMDAs, MWRWH Private sector	
		Construct 1N ^o Multi-Village Pipe Schemes						-	-	122.00	CWSA	MMDAs, MWRWH Private sector	
		Increase access improved sanitation and hygiene services	*Scale up CLTS *Deepen the PPP in Hand washing with soap campaign *Promote household treatment technologies	Nationwide					-	-	110.00	CWSA	MMDAs, MWRWH Private sector
		Ensure sustainable funding for rural water delivery	*Formulate Project Proposals *Market proposals to Development Partners	Nationwide					0.05	-	-	CWSA	MMDAs, GWCL
Accelerate the provision of adequate, safe and affordable water	Develop and manage alternative sources of water, including rain water harvesting	*Pilot research findings for rain harvesting	Nationwide						-	2.00	CWSA	MMDAs, MWRWH Private sector	
	Provide backstopping for operation and maintenance of existing facilities for sustainability	*Undertake monitoring visits and provide backstopping	Nationwide					0.22	-	-	CWSA	MMDAs, MWRWH Private sector	
TOTAL								19.83	-	264.00			

3.0 PROGRAMME THREE – HUMAN SETTLEMENT DEVELOPMENT

3.1 HOUSING SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase access to safe, secure and affordable shelter adequate,	Develop a national housing policy	Undertake sensitization/Awareness Programmes on the Policy	Nationwide					0.040	-	-	HD	MMDAs, DPs, CSO, PRIVATE SECTOR
		Implement the redevelopment programme to increase the housing stock for public workers	Greater Accra					3.000	-	-	HD	MMDAs, Private Sector
		Completion of 1,416No. affordable housing units by SSNIT	Borteyman					-	-	97.50	HD	SSNIT
		Completion of 1,526No. affordable housing units	Kpone							33.33	HD	MMDAs, GREDA, GIA, GhIE, Private Sector
		Completion of 662No. affordable housing units	Koforidua; Tamale; Wa							25.00	HD	MMDAs, GREDA, GIA, GhIE, Private Sector
		Construction of 5,000 Housing Units by M/s Constructora OAS	Nationwide							104.00	HD	GREDA, GIA, GhIE, Constructora OAS
		Construction of 4,120 Housing Units by M/s Ital Construct	Nationwide							104.00	HD	GREDA, GIA, GhIE, Ital Construct
		Construct housing units for Public Servants	Nationwide					15.000	-	-	HD	MMDAs, GREDA, GIA, GhIE, Private Sector
		Construct 368No housing units for the security services under the Security Services Housing Programme Phase II	Tema					15.000	-	-	HD	MMDAs, GREDA, GIA, GhIE, Private Sector
		Support the creation of land Banks	Identify and procure land banks for affordable housing projects	Nationwide					0.500	-	-	HD
Adopt and enforce the reviewed national building codes	Review of building regulations (LI 1630) and Sensitization/Awareness of Reviewed Building Code and regulations	Nationwide					0.050	-	-	HD	MMDAs, DPs, CSO, Private Sector	
Introduce major slum renewal programmes	Support the Implementation of the Slum Upgrading and Prevention Strategy	Nationwide					0.500	-	-	HD	MWRWH, MMDAs, DPs, CSO, Private Sector	
	Payment of subscription to International Organisations (UN-HABITAT, AMCHUD)						0.060	-	-	HD	UN-HABITAT, AU	
TOTAL								34.090	-	363.833		

3.2 URBAN HOUSING MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget			Implementing Agencies	
				1st	2 nd	3 rd	4th	GoG	IGF	Donor	Lead	Collaborating
1. Increase access to adequate, safe, secure and affordable shelter	Provide support for private sector involvement in the delivery of rental housing	Development of a national rent policy and review of the rent act 1963,	Accra					0.056	-	-	RCD	MWRWH, Private Sector
		Embark on a national public education and sensitization programme	Nationwide					0.060	-	-	RCD	MWRWH, Private Sector, Media
		Renovation and refurbishment of rent control offices,	Nationwide					0.150	-	-	RCD	MWRWH, Private Sector
		National registration of landlords and tenants	Nationwide					0.060	-	-	RCD	MWRWH, Private Sector
		Development of an online site for prospective tenants and vacant apartments for rent	Accra					0.150	-	-	RCD	MWRWH, Private Sector
		Procurement of 4 pickup vehicles	Accra					0.100	-	-	RCD	MWRWH, Private Sector
		Capacity building of rent officers	NAtionwide					0.023	-	-	RCD	MWRWH, Private Sector
		Disburse housing loans						5.000	-	-	RCD	MWRWH, Private Sector
		Provision of Infrastructural Services	Community 24 - Tema						6.330			TDC
	Community 24 Extension										TDC	ECG, GWCL, DUR. MMDAs
	Promote the use of pozzolana cement in the construction industry	All construction projects	Tema Acquisition Area (TAA)						0.020		TDC/ BRRI	MWRWH
	Skew development in favour of High-rise apartments Adopt rapid construction methods in housing delivery	Construction of Flats	Com. 1						20.000		TDC	AESL, ECG, GWCL, DUR, MMDAs
			Com. 23						80.000		TDC	AESL, ECG, GWCL, DUR, MMDAs
	Deploy dedicated technical team to supervise execution of project by Direct Labour contractors	Affordable Housing	Kpone						25.000		TDC	AESL, ECG, GWCL, DUR, MMDAs
Infrastructure								27.000		TDC	AESL, ECG, GWCL, DUR, MMDAs	
Staff housing		Com. 22								TDC	AESL, ECG, GWCL,	

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly schedule				Time	Indicative Budget			Implementing Agencies		
				1st	2nd	3rd	4th		GoG	IGF	Donor	Lead	Collaborating	
									5.500				DUR, MMDAs	
	Support mortgage financing	Sale of flats	Com. 1									TDC	Mortgage Institutions Finance	
Com. 22												TDC	Mortgage Institutions Finance	
Com. 23													TDC	Mortgage Institutions Finance
Kpone													TDC	Mortgage Institutions Finance
	Support the creation of land banks	Land Acquisition	Shai Hills, Prampram, Ningo, Winneba, V/R									TDC	LANDS COMMISSION, MWRWH, TRADITIONAL COUNCIL	
	Collaborate with Security Agencies to nib encroachment and unauthorised development in the bud as a way of protecting Government Lands	Land protection	TAA									TDC	SECURITY AGENCIES, LANDS COMMISSION, MWRWH, TRADITIONAL COUNCIL	
	Urban renewal and Redevelopment	Shops & offices	Com. 2						2.450			TDC	MWRWH, ECG, GWCL, MMDAs, DUR, Security Agencies, GPHA	
		Kaizer flats redevelopment (Phase 1)	Com. 4						200.000			TDC	MWRWH, ECG, GWCL, MMDAs, DUR, Security Agencies, GPHA	
	Improve the human and institutional capacities in TDC	Organizational restructuring	TDC									TDC	MWRWH, Training Institutions	
		ICT Upgrade Project	TDC						0.550			TDC	MWRWH, Training Institutions	
		Staff training	TDC									TDC	MWRWH, Training Institutions	

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly schedule				Indicative Budget			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
	1.1 Support the creation of land Banks	1 .Acquisition of Lands	1.Shai Hills, Osu doku, Ho,Cape Coast,Kajasi, (country wide)						0.25		SHC	Land Commission, local govt, forestry ,interior, town and country planning
	1.2 Adopt and enforce the reviewed national building codes	1.intergation of building codes into Construction of Estates Houses	Country wide						0.80		SHC	AESL, Highways, Ghana Water, ARC, SHC
	1.3 Support technical and other educational institutions, other professional bodies to train more human resources required for planning and the construction sector	1.Granting opportunity for students to do attachments, national service and employment	Country wide						0.01		SHC	GES, Universities, Ministry of education, NSS
	1.4 Promote the use of pozzolana cement in the construction industry	Promote the use of pozzolana cement in the construction industry	Country wide						0.50		SHC	MWRWH,MESTI,GIA, GIP,EPA,PPA,NADM O,MMDA 's, GhiE, GhiS
	1.5 Promote and develop high rising buildings	Urban regeneration	Country wide						7.50		SHC	MWRWH,MESTI,GIA, GIP,EPA,PPA,NADM O,MMDA 's
	Promoting waste management and recycle	Promoting waste management and recycle	Country wide						8.750		SHC	MWRWH,MESTI,GIA, GIP,EPA,PPA,NADM O,MMDA 's,
Promote sustainability through human settlement and development	2.1 Promote orderly growth of settlements through effective land use planning and management	Ensuring an orderly self-sustaining Planning Schemes	Country wide						7.50		SHC	Town & Country Planning Authorities, development partners, MOJ and AGD
3.Improve and accelerate housing delivery in the peri- urban areas	Promote improvements in housing standards, design, financing and construction	Ensuring that housing designs financing and construction meets the national standards	Country wide						5.63		SHC	Town & Country Planning Authorities, Land commission
TOTAL								5.599	397.797	-		

3.3 RURAL HOUSING MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Improve and accelerate housing delivery in the rural areas	Review and implement existing rural housing policy	Training of 50N ^o District Assemblies Technicians	Nationwide					0.025			DRH	MMDAs,
		Sensitization and Awareness	Nationwide					0.01			DRH	MMDAs, NGOs
	1. Promote orderly growth of settlements through effective land use planning and management 2. Promote improvements in housing standards, design, financing and construction	Construction of 100N ^o Rural Houses	Nationwide					0.5			DRH	MMDAs, NGOs, GREDA
		Rehabilitation of 50N ^o Rural Houses	Nationwide					0.25			DRH	GOG, MMDAs, NGOs
		Establish 4N ^o model villages	Nationwide					0.04			DRH	MMDAs, MWRWH, NGOs, GREDA
		Establish 10N ^o District Assembly staff housing	Four Districts					0.125				MMDAs, NGOs, GREDA
	Provide technical assistance to communities to support basic house-building skills training programmes, technical information service and low cost house design and building competitions	Establish 45N ^o Training centres	Nationwide					1.125			DRH	MMDAs, NGOs
		Construction skills training in District Assemblies	Nationwide					0.5			DRH	MMDAs, GREDA
	Promote the establishment of public-sponsored site and services schemes through which suitable tracks of land will be made available for housing in collaboration with traditional landowners	Establish 10N ^o Material banks	Nationwide					0.2			DRH	MMDAs, NGOs
	Promote self-help building schemes organized along communal themes, co-operative societies, and crop and trade associations	Establish Corporative Housing Schemes in five (5) region	5 Regions					0.05			DRH	MMDAs, NGOs, Trade Associations,
TOTAL								2.825				

3.4 MANAGEMENT OF PUBLIC CONSTRUCTION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				GOG	IGF	Donor	Implementing Agencies	
				1st	2nd	3 rd	4th				Lead	Collaborating
Improve and accelerate housing delivery in the rural areas	Promote improvements in housing standards, design, financing and construction Promote self-help building schemes organized along communal themes, co-operative societies, and crop and trade associations	Compensation of Employees	Accra					0.400	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Administrative Support for Running the Sub-Programme	Accra					0.102	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Training of probationers in the architectural profession.	Accra					0.022	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Development control workshop for technicians	Accra					0.025	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Professional practice exams and induction ceremony.	Accra					0.044	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Sensitization and advocacy program on the use of local building materials	Nationwide					0.038	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Training for small and medium scale contractors	Accra					0.022	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Review of Architects Decree NLCD,1969 357						0.150	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Staff Training						0.012	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Review of the Professional Practice Syllabus						0.025	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Monitoring of the KNUST and CUC schools of Architecture						0.008	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Publication / Gazetting of the registration of Architects and Architectural Firms						0.010	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Continuous Professional development (CPD) for Architects						0.015	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Rehabilitate, refurbish and maintain the existing office building of ARC						-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Purchase of plant and Equipment						-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Compensation of Employees						0.074	-	-	EC	MWRWH, GhIE, PPA, MMDA's
Administrative Support for Running the Sub-Programme						0.085	-	-	EC	MWRWH, GhIE, PPA, MMDA's		

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule							Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
		Rehabilitation of Engineers Council Office building						0.030	-	-	EC	MWRWH, GhIE, PPA, MMDA's
		Purchase of office facilities and supplies						0.100	-	-	EC	MWRWH, GhIE, PPA, MMDA's
		Training of staff of the Engineers Council						0.025	-	-	EC	MWRWH, GhIE, PPA, MMDA's
Increase access to adequate, safe, secure and affordable shelter	Adopt and enforce the reviewed national building codes	Ensure the incorporation of standardized building codes in the designs of building structures	Nation-wide						0.110		AESL	MWRWH GNFS, EPA, TCPD, MMDAs
	Set standards for local construction materials	Specification of approved local construction materials in various designs	Nation-wide						0.022		AESL	BRRI, MWRWH
	Support technical education institutions and other professional bodies to train more human resources required for planning and the construction sector	Students' attachment programmes	Nation-wide						0.018		AESL	POLY-TECHNICS, UNIVERSITIES, OTHERS
		Financial support for professional bodies	Gt Accra and Ash. Regions						0.020		AESL	GhIS, GhIE, GIA
Improve and accelerate housing delivery in the rural areas	Support the use of pozzolana cement in the construction industry	Incorporation of the use of Pozzolana cement in designs	Nation-wide						0.363		AESL	ABCEC, PGL, MMDAs
		Education on the use of Pozzolana	Nationwide						0.008		AESL	POZZOLANA GHANA LTD(PGL), ABCEC, MMDAs
Ensuring the safety of lives and properties	Ensuring stability of structures	Conducting structural integrity test on both old and new buildings	Nationwide						0.500		AESL	PRIVATE, QUASI AND PUBLIC SECTOR INSTITUTIONS
	Ensure the true value of land and buildings	Valuations of land and buildings	Nationwide						0.250		AESL	
	Improve the human and institutional capacity of AESL	Capacity building for AESL staff	Nationwide						0.040		AESL	GhIS, GhIE, GIA, ARC
SUB TOTAL (MANAGEMENT OF PUBLIC CONSTRUCTION)								1.187	1.331	-		

4.0 PROGRAMME FOUR – INFRASTRUCTURE SECTOR MANAGEMENT

4.1 WORKS SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase resilience of coastal settlement and infrastructure	Provide national guidance and standards for addressing multi-hazard threats	Develop a National Maintenance Policy	Accra					0.03	-	-	Works Directorate	
		Develop Regional and district drainage master plans	Nationwide					2.00	-	-	Works Directorate	
	Ensure resettlement of vulnerable communities	Complete 50N ^o Keta Sea Defence Resettlement Housing Units						3.00	-	-	Works Directorate	
		Enhance capacity to mitigate and reduce natural disasters ,risks and vulnerability	Construct H. E. the President's Emergency Drainage Projects	Nationwide					10.00	-	-	Works Directorate
	Implement the Annual National Flood Control programme		Nationwide					5.00	-	-	Works Directorate	
	Rehabilitate the existing ministerial block of offices		Accra					0.20	-	-	Works Directorate	
	Complete the extension of the new Ministerial Block of Offices		Accra					0.20	-	-	Works Directorate	
	Rehabilitate, refurbish and maintain the UNDP Blocks of Flats		Accra					-	-	2.50	Works Directorate	
	Monitored and Evaluated the Works Directorate programmes	Nationwide					0.20	-	-	Works Directorate		
TOTAL								20.63	-	2.50		

4.2 GENERAL MAINTENANCE MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase resilience of coastal settlement and infrastructure	Ensure resettlement of vulnerable communities	Renovate 50N ^o of Government bungalows	Nationwide					1.50	-	-	PWD	MWRWH
		Refurbish 10N ^o PWD regional offices	Nationwide					0.50	-	-	PWD	MWRWH
TOTAL								2.00				

4.3 DRAINAGE MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
1.Minimize the impact of and develop adequate response strategies to disasters	Proper planning of drainage systems	Construction of Sakaman drain lot I	Sakaman					0.400	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Sakaman drain lot II	Sakaman- Greater Accra					0.300	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Goaso drain lot I	Goaso- Brong Ahafo					0.800	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Goaso drain lot II	Goaso- Brong Ahafo					0.600	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA,
		Construction of Goaso drain lot III	Goaso- Brong Ahafo					1.200	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Mim drain	Mim– Brong- Ahafo					0.100	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Extension of Nima Drain Ph I	Nima – Greater Accra					5.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Stormwater drainage improvement works at Winneba lot I	Winneba – Central Region					0.100	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Stormwater drainage improvement works at Winneba lot II	Winneba – Central Region					0.750	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Akora River drainage project	Agona Swedru- Central Region					11.600	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Asankragua drain lot II	Asankragua – Western Region					0.800	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Asankragua Lot III	Asankragua – Western					1.000	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Tamale drain lot I	Tamale – Northern Region					1.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Tamale drain lot II	Tamale – Northern Region					1.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Kumawu drain lot I	Kumawu – Ashanti Region					0.800	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Kumawu drain lot II	Kumawu – Ashanti Region					0.800	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Ejura drain lot I	Ejura – Ashanti-Region					1.400	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
Construction of Ejura drain lot II	Ejura – Ashanti-Region					1.400	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST		
Construction of Tapa drain	Tapa – Ashanti-					1.400	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD,		

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
		lot I	Region									EPA, NADMO, MEST
		Construction of Tapa drain lot II	Tapa – Ashanti-Region					1.400	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Onyasia upstream drain	East Legon -Greater Accra					30.000	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Plain concrete U-drain at Hwidiem - Lot I	Hwidiem - Brong Ahafo Region					1.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Plain concrete U-drain at Hwidiem - Lot II	Hwidiem - Brong Ahafo Region					1.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Reinforced rectangular concrete drain at Ofoase Kokoben	Ofoase Kokoben - Ashanti Region					1.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Reinforced rectangular concrete drain at Tafo Lot I	Tafo - Ashanti Region					3.200	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Reinforced rectangular concrete drain at Tafo Lot II	Tafo - Ashanti Region					1.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Taifa Drainage project Lot I	Taifa - Greater Accra					0.120	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Taifa Drainage project Lot II	Taifa - Greater Accra					0.140	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Treatment Plant at Redco-Madina	Madina - Greater Accra					0.400	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Maintenance of Teshie-Nungua Sewerage Treatment Plant	Teshie-Nungua Greater-Accra					0.050	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Maintenance of Dansoman sewerage Treatment Plant	Dansoman -Greater Accra					0.050	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Roman Ridge Sewerage System	Roman Ridge-Greater Accra					1.500	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Rehabilitation of Ministries area sewerage system	Ministries area - Greater Accra					1.800	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Maintenance of Labone sewerage system	Labone-Greater Accra					0.050	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
TOTAL								76.660				-

4.4 COASTAL MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Improve investment in coastal structures and technologies	Direct investment in control structures Gabions and boulder revetments to arrest erosion	Aboadze Coastal Protection Works	Aboadze – W/R					35.625	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Atorkor - Dzita – Anyanui Sea Defence Project PH III	Volta Region					29.000	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Sakumono Sea defence Protect PH II	Sakumono – Greater Accra.					50.000	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Ngyiresia Sea Defence Project	Ngyiresia- W/R					29.000	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Adjoa (Near Takoradi) Coastal Protection Works	Adjoa (Near Takoradi)					15.000	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Amanful Kumah Coastal Protection Works	Amanful Kumah					20.000	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Dansoman Emergency Coastal Protection Works.	Dansoman- Greater Accra.					39.000	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Nkontompo Coastal Protection Works.	Nkontompo - W/R					28.750	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
TOTAL								246.375	-	-		

4.5 OPERATIONAL HYDROLOGY

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Enhance capacity to mitigate and reduce natural disasters ,risks and vulnerability	Invest in early warning and response systems	Renovation of river gauging stations , changing of automatic water level recorders	Across the nation					1.100			HSD	MWRWH, MOF MLGRD ,TCPD, EPA, NADMO, MEST
		Installation and maintenance of Telemetry systems	In the White Volta Basin					1.000			HSD	MWRWH, MOF MLGRD ,TCPD, EPA, NADMO, MEST
TOTAL								2.100				

5.2.3 2016 ANNUAL ACTION PLAN

1.0 PROGRAMME ONE – GENERAL ADMINISTRATION AND MANAGEMENT

1.1 GENERAL ADMINISTRATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Improve the human and institutional capacities of the relevant institutions.	Procure office facilities and supplies for the Ministry	Accra					0.810	-	-	Gen. Admin Directorate	Sector Directorates
TOTAL								0.810	-	-		

1.2 FINANCE

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Ensure secure, adequate and sustainable financing	Implement measures to increase financial and investment absorptive capacity of the sector	Prepare quarterly financial reports	Accra					0.005	-	-	Finance Directorate	Sector Directorates, Departments and Agencies
		Prepare Annual financial reports	Accra					0.002	-	-	Finance Directorate	Sector Directorates, Departments and Agencies
		Train staff in advanced Microsoft excel applications	Accra					0.024	-	-	Finance Directorate	HR Directorate
SUB TOTAL (FINANCE)								0.031	-	-		

1.3 HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Ensure the adequate staffing, upgrading of relevant skills and enhance the	Develop and retain human resource capacity at national, regional and district levels	Train Directors/Heads of Agencies/Personnel officers in training needs assessment	Accra					0.033	-	-	HR Directorate	Sector Directorates, Departments and Agencies
		Conduct Sector wide skills development training in GoG rules and regulations for	Accra					0.033	-	-	HR Directorate	Sector Directorates, Departments and Agencies

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
equipment base of institutions		HR and Personnel Officers										Agencies
		Participate in executive development programmes for Directors	Worldwide					0.035	-	-	HR Directorate	Sector Directorates,
		Train Directors/ other relevant staff in the Public Procurement Process (Procurement Act)	Accra					0.036	-	-	HR Directorate	Sector Directorates,
		Undertake Scheme of service development programmes.	Accra					0.032	-	-	HR Directorate	Directorates,
TOTAL								0.168	-	-		

1.4 POLICY PLANNING, BUDGETING, MONITORING AND EVALUATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Improve Sector institutional capacity.	Enhance the capacities of Institutions for effective planning of human settlements	Organise Annual review of annual budget performance	Accra					0.058	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
		Organise Mid-Term review of the Sector Medium Term Development Plan	Accra					0.046	-	-		
		Organise Mid-Term review of the Sector Monitoring and Evaluation Plan	Accra					0.046	-	-		
		Implement the M&E Action plan	Nationwide					0.115	-	-		
		Prepare Annual progress reports	Accra					0.006	-	-		
		Prepare quarterly budget performance reports	Accra					0.006	-	-		
Ensure secure, adequate and sustainable financing	Implement measures to secure adequate GoG annual budgetary allocation for the sector	Prepare Annual Budget Estimates for ensuing year	Accra					0.029	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
TOTAL								0.305	-	-		

1.5 RESEARCH, STATISTICS AND INFORMATION MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase access to adequate,	Improve the human and institutional	Publication of Sector Quarterly Newsletter	Ministry					0.005	-	-	RSIM	Directorate, Departments and Agencies
		Participation in Meet- the- Press-Series	Ministry						-	-	RSIM	MoIMR, Directorate,

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
safe, secure and affordable shelter	capacities of the relevant institutions							0.012				Departments and Agencies
		Research/Impact Assessment on Relevant Policies and Programmes	Ministry					0.080	-	-	RSIM	Directorate, Departments and Agencies
		Preparation and Submission of Annual Performance Report to OHCS	Ministry					0.008	-	-	RSIM	OHCS, Directorate, Departments and Agencies
		Organisation of Public Sensitization on Policies and Programmes by the Hon. Minister and Deputies	Ministry					0.040	-	-	RSIM	Directorate, Departments and Agencies
		Research conducted, Data Collated and Compiled to update database for Decision making and Policy Formulation	Ministry					0.050	-	-	RSIM	Directorate, Departments and Agencies
		Rehabilitation of Information Centre/Library	Ministry					0.035	-	-	RSIM	
		Facilitated Training of 20No. staff in the use of ICT	Ministry					0.035	-	-	RSIM	HRM
		Review existing and Develop New Sector publications (Sector Handbook, Service Brochure, Ministry's Service Charter)	Ministry					0.020	-	-	RSIM	Directorate, Departments and Agencies
		Participation in International Fairs National and Regional Policy Fairs	Ministry					0.025	-	-	RSIM	Directorate, Departments and Agencies
		Organisation of Press releases/Radio/TV discussions	Ministry					0.040	-	-	RSIM	Directorate, Departments and Agencies
		Quarterly Update of Information on Website	Ministry					0.002	-	-	RSIM	Directorate, Departments and Agencies
		Conduct Beneficiary/Clients Service Surveys	Ministry					0.004	-	-	RSIM	
		Upgrade Informational Materials in Ministerial Library/Resource Centre	Ministry					0.002	-	-	RSIM	
		Update information on Conventions, Statutory Acts, ,MOU's and Contracts	Ministry					0.001	-	-	RSIM	Directorate, Departments and Agencies
TOTAL							0.359	-	-			

1.6 INTERNAL AUDIT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Promote transparency and accountability and	Enforce the implementation of the Public Procurement	Conduct financial audit	Ministry					0.006	-	-	IAU	Finance Directorate
		Organize ARIC meeting	Ministry					0.024	-	-	IAU/ ARIC Secretariat	Directorates, Gen. Admin.
		2 officers to attend training on I.T. Auditing	Ministry					0.005	-	-	IAU	IAA
		Verification and inspection of projects	Ministry					0.036	-	-	IAU	PPBME Directorate

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
reduce opportunities for rent seeking	Act, Internal Audit Agency Act and other Financial Management Regulations	Conduct procurement and stores management Audit	HSD					0.003	-	-	IAU	
		Conduct payroll/personnel management audit	PSHLSB					0.001	-	-	IAU	
		Officers to attend training in Risk/system based auditing	Ministry					0.005	-	-	IAU	IAA
		Follow-up on previous audit by IAU and GAS	Ministry					0.006	-	-	IAU	
		Conduct Asset Management audit	Ministry					0.003	-	-	IAU	
		Prepare 2017 budget and audit plans	Ministry					0.005	-	-	IAU	PPBME
TOTAL							0.093	-	-			

2.0 PROGRAMME TWO - WATER AND SANITATION MANAGEMENT

2.1 WATER SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
To accelerate the provision of adequate, safe and affordable water	Implement measures for effective operation and maintenance, system upgrading, and replacement of water facilities.	Facilitate the review of technology options for rural and small towns water supply to make them more affordable and disability friendly	Nationwide					0.200	-	-	Water Dir.	CWSA, IRC, CSIR
	Strengthen the sub-sector management systems for efficient service delivery	Facilitate the review of technology options for urban water supply to make them more affordable and disability friendly	Nationwide					0.200	-	-	Water Dir.	GWCL, IRC, CSIR
	Strengthen the sub-sector management systems for efficient service delivery	Coordinate a functionality study to compile database on all water facilities to inform planning on replacement/major rehabilitation of water facilities	Nationwide					0.500	-	-	Water Dir.	CWSA, GWCL, PSP, PPBME, RSIM
	Establish and operationalize mechanisms for water quality monitoring	Coordinate the development of a national water safety plan (to clarify safety standards for water service, river basin management and responsible institutions)	Nationwide					0.150	-	-	Water Dir.	CWSA, WRC, GWCL, FDA, GSA, PURC
	Establish and operationalize mechanisms for water quality monitoring	Collaborate, lead and monitor the quality of water across the country	Nationwide					0.150	-	-	Water Dir.	CWSA, WRC, GWCL, FDA, GSA, PURC, EHSD
To ensure the development	Promote behavioural change(hand washing with soap, household water treatment and	Monitor the implementation of PPP framework on handwashing with soap at community and DA level.	Nationwide					0.200	-	-	Water Dir.	CWSA, EHSD, UNICEF, PSP

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
and implementation of health education as a component of all water and sanitation programmes	safe storage, safe excreta disposal) for ensuring Open Defecation-Free Communities	Coordinate the Implementation of national household water treatment and safe storage strategy	Nationwide					0.100	-	-	Water Dir.	CWSA, EHSD, UNICEF, PSP
To adopt a sector-wide approach to water and environmental sanitation delivery	Develop and implement a Strategic Sector Development Plan. Develop and implement a comprehensive M&E for the water and sanitation sector. Incorporate cross-cutting themes such as: gender, environment, public sector reform, decentralization and governance in the implementation of SWAP	Strengthen the Institutional capacity of the WD	Nationwide					0.400	-	-	Water Dir.	HRMD, MoF, OHCS
		Lead the development of a comprehensive M&E Framework for the WASH Sector	Nationwide					0.150	-	-	Water Dir.	CWSA, GWCL, WRC, PSP, PPBME, RSIM
		Establish an MIS Unit within the Water Directorate to track progress within the WASH Sector	Nationwide					0.150	-	-	Water Dir.	PPBME, RSIM
		Lobby to ensure that adequate logistics and budgetary support are provided for WASH activities of District Works Departments in all MMDAs	Nationwide					0.050	-	-	Water Dir.	CWSA, GWCL, WRC, MoF, MLGRD
		Support all DAs to pass and gazette bye-laws to legalise WSMTs	Nationwide					0.120	-	-	Water Dir.	MLGRD
		Facilitate review/update of DWSPs as part of the process for preparing DMTDPs in all MMDAs	Nationwide					0.400	-	-	Water Dir.	MLGRD
		Institute annual auditing of the accounts of WSMTs by MMDAs	Nationwide					0.650	-	-	Water Dir.	MLGRD, GAS
		Publish annual statement of accounts of CWSA, GWCL and WRC in the national dailies	Nationwide					0.150	-	-	Water Dir.	CWSA, GWCL, WRC, GAS, MoF, CAGD
		Establish and operationalise level learning alliance platforms in all regions	Nationwide					0.250	-	-	Water Dir.	RCN, IRC, GWCL, CWSA, WRC
		Establish an Inter-Ministerial Steering Committee (IMSC) for water	Nationwide					0.050	-	-	Water Dir.	MLGRD, MoF
		Institutionalise monthly sector working group meetings	Nationwide					0.028	-	-	Water Dir.	MLGRD-EHSD, MoF

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
		Monitor the implementation of the activities outlined in the SSDP to inform policy	Nationwide					0.150	-	-	Water Dir.	CSWSA, GWCL, WRC, EHSD
		Coordinate the development of strategic policy framework for rainwater harvesting	Nationwide					0.100	-	-	Water Dir.	WRC, CWSA, GWCL, STEPRI
		Facilitate the county's financial contribution, participation and implementation in international programmes and plans (e. g. VBA, GEF-Volta, GWP/WA and AMCOW)	Nationwide					0.200	-	-	Water Dir.	WRC, MoF
		Set up a national M&E coordination group for the sector with clear terms of reference	Nationwide					0.050	-	-	Water Dir.	Sector Stakeholders
		Ensure the setting up and resourcing of M&E units at GWCL, WRC and CWSA to provide regular update on agreed sector indicators.	Nationwide					0.010	-	-	Water Dir.	GWCL, CWSA, WRC
		Design and implementation of framework for collaborating with MGCSP in WASH delivery	Nationwide					0.075	-	-	Water Dir.	MGCSP, MLGRD
		Lead the organisation of the Annual Ghana Water Forum	Nationwide					0.250	-	-	Water Dir.	Sector Stakeholders
		Lead in the design and publications of the following reports: Annual Reports (WASH Annual report, Water focus, Ghana Water Forum report, Ghana Water Forum Journal etc) prepared	Nationwide					0.170	-	-	Water Dir.	CWSA, GWCL, WRC, EHSD
		Coordinate the organisation of the Annual Inter School Quiz competition	Nationwide					0.180	-	-	Water Dir.	CWSA, GWCL, WRC, EHSD, GES
		Ensure the rolling out of the DiMES software in all MMDAs	Nationwide					0.030	-	-	Water Dir.	CWSA, MLGRD
	To ensure secure, adequate and sustainable financing		Carry out quarterly review of water tariffs in accordance with PURC's automatic adjustment formulae	Nationwide					0.030	-	-	Water Dir.
		Ensure the implementation of the framework on private sector participation in the water sector including financing (BOO, BOT etc.)	Nationwide					0.010	-	-	Water Dir.	MoF
		Develop appraisal and adoption of financing mechanism for capital maintenance	Nationwide					0.050	-	-	Water Dir.	MoF, CWSA, GWCL
		Purchase three (3) cross country vehicles to support monitoring and coordination activities of the Directorate	Nationwide					0.240	-	-	Water Dir.	MoF

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
To improve sector institutional capacity	Strengthen the capacity of the Water Directorate. Build the capacity of district assemblies to better manage water resources as well as water and environmental sanitation. Enhance the mandate and capacity of lead sector agencies (WRC, GWCL, and CWSA) facilities.	Ensure the routine training for WATSAN C'tees, WSMTs, Pump Caretakers and Area Mechanics	Nationwide					0.120	-	-	Water Dir.	CWSA, MLGRD
		Provide technical support to CONIWAS to track sector investments and report on NGO contributions to the sector	Nationwide					0.120	-	-	Water Dir.	GWCL, WRC, CWSA
		Provide adequate resources for sector learning platforms and extend learning alliance platforms to the regional levels	Nationwide					0.040	-	-	Water Dir.	MoF, DPs
		Provide support for research on sector issues	Nationwide					0.120	-	-	Water Dir.	MoF
		Participate in Annual WASH conferences and For a around the World	Nationwide					0.120	-	-	Water Dir.	MoF
		Capacity building and training of the Water Directorate Staff	Nationwide					0.240	-	-	Water Dir.	MoF
TOTAL								6.203	-	-		

2.2 WATER RESOURCES MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Ensure efficient management of water resources	1.Support relevant state agencies, District Assemblies and local communities to undertake reforestation programme for water sheds protection	1. Promote and implement schemes for harmonized protected land strips/areas along open water bodies. 2. Complete and adopt Legislative Instrument on the policy.	Nationwide					-	0.292	-	WRC	MMDAs, FC, MDAs, MLGRD, EPA, NGOs, CSOs
	3. Set up mechanisms and measures to support encourage and promote rainwater harvesting.	1. Embark on public education on the institutionalization of rainwater harvesting 2. Promote research results on rainwater harvesting in urban dwellings and institutions	Nationwide					-	0.173	-	WRC	CWSA, CSIR, MDAs, MMDAs, CONIWAS
	4. Improve access to water resources knowledge base to facilitate water resources planning and decision making	1. Guide and obtain data on river flows in selected basins. 2. Carry out sustained monitoring of groundwater resources. 3. Carry out ecological monitoring of water bodies. 4. Undertake monitoring and analysis of raw	Nationwide					-	0.165	-	WRC	CSIR, GAEC, HSD, GMet

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
		water quality.										
	5. Continue establishment of functional management structures for selected major river basins	1. Identify 2 new priority basins and initiate the establishment of their basin offices and boards	Nationwide					-	1.370	-	WRC	RCCs, MMDAs, MLGRD
	6. Promote climate change adaptation in water resources management for water security and improved livelihoods	1. Increase the technical capacities of WRC, HSD, and GMet for flood forecasting. 2. Increase public awareness for disaster risk preparedness and risk reduction targeting vulnerable groups of society 3. Initiate and support community based climate change adaptation and risk reduction initiatives	Upper East and Northern Regions					-	-	-	WRC	HSD, GMet, NADMO, MMDAs
	7. Enhance trans-boundary water resources cooperation and management	1. Organize technical meetings/activities of the Ghana-Burkina Joint Technical Committee on IWRM 2. Facilitate Ghana's participation in activities/initiatives of the Volta Basin Authority and the ECOWAS/WRCC 3. Facilitate the development and ratification of international protocols with riparian states	Nationwide					-	0.368	-	WRC	AGD, MFA, MFEP, Parliament
	8. Strengthen the regulatory framework for managing and protecting water resources for water security	1. Administer and monitor compliance of the Water Use Regulations (LI 1692) and Drilling License and Groundwater Development Regulations (LI 1827) 2. Initiate the administration of the Dam Safety Regulations 3. Review existing regulations	Nationwide					-	0.395	-	WRC	EPA, MMDAs, HSD, VRA, GIDA, CSIR, GMet, GWCL
	9. Enhance public awareness and education in water resources management.	1. Review the Communication Strategy 2. Undertake educational campaigns including documentaries and media programs 3. Train collaborative agencies. 4. Develop and disseminate educational materials. 5. Organize notable events including World Water Day	Nationwide					-	0.375	-	WRC	MMDs, Media, NGOs
	10. Promote scientific investigations in research in water resources assessment, development and management	1. Promote further hydrogeological investigations nationwide 2. Carry out research on strategies for adaptation to climate change	Nationwide,					-	-	-	WRC	CSIR, GAEC, UG, EPA, VRA, MWRWH, MOFA, CWSA
	11. Ensure the preparation and implementation of river basin	1. Develop IWRM plans for new priority basins	Nationwide					-	0.728	-	WRC	MMDAs, NGOs, FC, MLGRD,

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
	and national IWRM plans and strategies	2. Implement actions on the developed basin and national IWRM Plans										CSOs, GWCL, MC
	12. Develop and enhance human and institutional capacities for the efficient and effective governance of water resources	1. Undertake staff needs and training programs/events 2. Revise the Gender and WRM strategy. 3. Continue institutional capacity actions including functional website and library	Accra, Koforidua, Kumasi, Tarkwa, Bolgatanga, Sunyani					-	0.377	-	WRC	DPs, Private Sector
	13. Develop and implement incentive mechanisms such as payment for ecosystem services for water resources management	1. Define the framework for introducing PES. 2. Implement PES on pilot basis in the Pra and Kakum basins	Pra and Kakum basins					-	0.200	-	WRC	EPA, FC, MC, HSD, CSIR, GWCL, Gmet, MMDAs, CSOs, NGOs, Private Sector
SUB TOTAL (WATER RESOURCE MANAGEMENT)								-	4.443	-		

2.3 URBAN WATER MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate safe and affordable water	1. Mobilize investments for the construction of new, and rehabilitation and expansion of existing water treatment plants	Kpong Water Supply Expansion	Kpong					1.667	-	-	GWCL	PURC, CWSA, MMDA's
		Essakyir Water Supply - Additional works,	Esakyir					1.000	-	-	GWCL	PURC, CWSA, MMDA's
		Nsawam Water Project Phase 2,	Nsawam					0.500	-	-	GWCL	PURC, CWSA, MMDA's
		Kumasi Water Supply Addendum,	Kumasi					0.350	-	2.153	GWCL	PURC, CWSA, MMDA's
		Kumawu, Konongo, Kwahu Ridge Water Project	Kumawu, Konongo, Kwahu					0.400	-	17.640	GWCL	PURC, CWSA, MMDA's
		Akim Oda, Akwatia, Winneba WSP	Akim Oda, Akwatia, Winneba					0.350	-	11.544	GWCL	PURC, CWSA, MMDA's
		Upper East Region WSP	UER					0.300	-	3.510	GWCL	PURC, CWSA, MMDA's

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
		Sunyani Water Supply	Sunyani					0.400	-	221.586	GWCL	PURC, CWSA, MMDA's
		Damongo WSP	Damongo					1.000	-	258.336	GWCL	PURC, CWSA, MMDA's
		Agordome Assin Fosu WSP	Agordome Assin Fosu					1.000	-	103.740	GWCL	PURC, CWSA, MMDA's
		Cape Coast Water Supply - Addendum	Cape Coast					0.400	-	23.400	GWCL	PURC, CWSA, MMDA's
		Sekondi Takoradi Water Supply Project	Sekondi Takoradi					-	-	292.916	GWCL	PURC, CWSA, MMDA's
		Essiama Enclave WSP	Essiama					-	-	318.500	GWCL	PURC, CWSA, MMDA's
		Dormaa Ahenkro, Berekum and Suhum Water Supply Project	Dormaa Ahenkro, Berekum Suhum					0.250	-	272.181	GWCL	PURC, CWSA, MMDA's
		Keta Water Supply Project	Keta					1.167	-	84.935	GWCL	PURC, CWSA, MMDA's
		Aflao, Abor and Agbozume Water Supply Project	Aflao, Abor and Agbozume					0.500	-	90.918	GWCL	PURC, CWSA, MMDA's
		Kpeve Water Supply Project	Kpeve					0.300	-	133.588		
		Water Project For Rehabilitation of Existing Works and Expansion Works	Nationwide					0.400	-	362.664		
		Wa Water Supply Expansion Project	Wa					1.167	-	3.886		
		Yendi Water Supply Project	Yendi					0.500	-	28.000		
		Tamale Water Supply Project	Tamale					0.833	-	157.201		
		Kpong - Accra Transmission Pipeline + Expansion of 6.6MGD	Kpong, Accra					-	-	103.802		
		Techiman Water Supply Project	Techiman					2.167	-	65.111		
		Accra and Kumasi Distribution Network Strengthening	Accra and Kumasi					1.500	-	140.000		
		Installation of Electromechanical Equipment	Nationwide					-	-	163.800		
		Weija Fencing and Catchment restoration	Weija					0.833	-	2.113		
		Aquatic Weed clearing on Kpong, Weija, Tanoso, Owabi, Barekese, Brimsu, Kwanyaku	Kpong, Weija, Tanoso, Owabi, Barekese, Brimsu, Kwanyaku					1.167	-	887.250		
Accelerate the provision of adequate safe and affordable water	2. Ensure efficient management of assets, including water sources											
Accelerate the provision of	3. Implement demand	Services for the Enhancement of Nationwide Water Network Management (GIS Nationwide	Nationwide					1.067	-	10.530		

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
adequate safe and affordable water	management measures for efficient water use	Project)										
Accelerate the provision of adequate safe and affordable water	4. Encourage Public- Private Partnerships in water services delivery	Teshie Desalination (PPP)	Teshie					0.400	-	0.914		
		Asutsuare Water PPP	Asutsuare					1.000	-	1.280		
		Sogakope - Lome WSP	Sogakope - Lome					-	-	-		
		Cape Coast Water Supply - Additional works	Cape Coast					39.117	-	16.452		
	5. Strengthen the sub-sector management systems for efficient service delivery	Establishment of District office	Nationwide					-	-	1.097	GWCL	PURC, CWSA, MMDA's
Installation of Prepaid Metering		Nationwide					-	-	10.237	GWCL	PURC, CWSA, MMDA's	
SUB TOTAL (URBAN WATER MANAGEMENT)								59.733	-	3,789.287		

2.4 RURAL WATER MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate, safe and affordable water	Increase access to potable water	*Procure of goods, works and services	Nation-wide					10.00	-	36.00	CWSA	MMDAs, MWRWH, Private sector
		*Monitor construction and consultancy activities						0.65	-	-		
								-	-	230.00		
								10.00	-	140.00		
	Increase access improved sanitation and hygiene services	*Scale up CLTS *Deepen the PPP in Hand washing with soap campaign *Promote household treatment technologies	Nation-wide					-	-	126.00	CWSA	MMDAs, MWRWH Private sector
	Ensure sustainable funding for rural water delivery	*Review Project Proposals	Nation-wide					-	-	-	CWSA	MMDAs, GWCL
Accelerate the provision of adequate, safe and affordable water	Develop and manage alternative sources of water, including rain water harvesting	*Scale-up piloted for rain water harvesting technology	Nation-wide					-	-	4.00	CWSA	MMDAs, MWRWH Private sector
	Provide backstopping for operation and maintenance of existing facilities for sustainability	*Undertake monitoring visits and provide backstopping	Nation-wide					0.25	-	-	CWSA	MMDAs, MWRWH Private sector
SUB TOTAL (RURAL WATER MANAGEMENT)								20.900	-	536.000		

3.0 PROGRAMME THREE – HUMAN SETTLEMENT DEVELOPMENT

3.1 HOUSING SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase access to safe, secure and affordable shelter adequate,	Develop a national housing policy	Undertake sensitization/Awareness Programmes on the Policy	Nationwide					0.046	-	-	HD	MMDAs, DPs, CSO, PRIVATE SECTOR
		Implement the redevelopment programme to increase the housing stock for public workers	Greater Accra					3.450	-	-	HD	MMDAs, PRIVATE SECTOR
		Completion of 1,416No. affordable housing units by SSNIT	Borteyman					-	-	97.50	HD	SSNIT
		Completion of 1,526No. affordable housing units	Kpone							33.33	HD	MMDAs, GREDA, GIA, GhIE, PRIVATE SECTOR
		Completion of 662No. affordable housing units	Koforidua; Tamale; Wa							25.00	HD	MMDAs, GREDA, GIA, GhIE, PRIVATE SECTOR
		Construction of 5,000 Housing Units by M/s Construtora OAS	Nationwide							104.00	HD	GREDA, GIA, GhIE, Construtora OAS
		Construction of 4,120 Housing Units by M/s Ital Construct	Nationwide							104.00	HD	GREDA, GIA, GhIE, Ital Construct
		Construct housing units for Public Servants	Nationwide					17.250	-	-	HD	MMDAs, GREDA, GIA, GhIE, PRIVATE SECTOR
		Construct 368No housing units for the security services under the Security Services Housing Programme Phase II	Tema					17.250	-	-	HD	MMDAs, GREDA, GIA, GhIE, PRIVATE SECTOR
	Support the creation of land Banks	Identify and procure land banks for affordable housing projects	Nationwide					0.575	-	-	HD	MMDAs, GREDA
Adopt and enforce the reviewed national building codes	Review of building regulations (LI 1630) and Sensitization/ Awareness of Reviewed Building Code and regulations	Nationwide					0.058	-	-	HD	MMDAs, DPs, CSO, PRIVATE SECTOR	
Introduce major slum renewal programmes	Support the Implementation of the Slum Upgrading and Prevention Strategy	Nationwide					0.575	-	-	HD	MWRWH, MMDAs, DPs, CSO, PRIVATE SECTOR	
	Payment of subscription to International Organizations (UN-HABITAT, AMCHUD)						0.069	-	-	HD	UN-HABITAT, AU	
SUB TOTAL (HOUSING SECTOR MANAGEMENT)								39.204	-	363.83		

3.2 URBAN HOUSING MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Provide support for private sector involvement in the delivery of rental housing	Opening of four new offices	Nationwide					0.250	-	-	RCD	
		Purchase of office equipment	Nationwide					0.010	-	-	RCD	
		Recruitment and training of new of officers	Nationwide					0.015	-	-	RCD	
		Documentary on basic rent laws and procedure	Nationwide					0.035	-	-	RCD	
		Open forum for the public on rent issues	Nationwide					0.032	-	-	RCD	
		Purchase of two saloon vehicles	Accra					0.130	-	-	RCD	
		Disburse housing loans	Nationwide					6.000	-	-	PSHLSB	
Provide support for private sector involvement in the delivery of rental housing	Provision of Infrastructural Services	Community 24 - Tema					-	-	-	TDC	ECG, GWCL, DUR, MMDAs	
		Community 24 Extension					-	-	-	TDC	ECG, GWCL, DUR, MMDAs	
Promote the use of pozzolana cement in the construction industry	All construction projects	Tema Acquisition Area (TAA)					-	-	-	TDC/ BRRRI	MWRWH	
Skew development in favour of High-rise apartments Adopt rapid construction methods in housing delivery	Construction of Flats	Com. 1					-	9.200	-	TDC	AESL, GWCL, MMDAs	
		Com. 23					-	120.000	-	TDC	AESL, GWCL, MMDAs	
Deploy dedicated technical team to supervise execution of project by Direct Labour contractors	Affordable Housing	Kpone					-	25.000	-	TDC	AESL, GWCL, MMDAs	
	Infrastructure	Kpone					-	-	-			
	Staff housing	Com. 22					-	7.000	-			
Support mortgage financing	Sale of flats	Com. 1					-	-	-	TDC	Mortgage Finance Institutions	
		Com. 2					-	-	-	TDC		
		Com. 23					-	-	-	TDC		
		Kpone					-	-	-	TDC		
Support the creation of land banks	Land Acquisition	Shai Hills, Prampram, Ningo,					-	-	-	TDC	Lands Commission, MWRWH,	

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
			Winneba, V/R									Traditional Councils
	Collaborate with Security Agencies to nib encroachment and unauthorised development in the bud as a way of protecting Government Lands	Land protection	TAA					-	-	-	TDC	Security Agencies, Lands Commission, MWRWH
	Urban renewal and Redevelopment	Shops & offices	Com. 2					-	150.000	-	TDC	MWRWH, ECG, GWCL, MMDAs, DUR, Security Agencies, GPHA
		Kaizer flats redevelopment (Phase 1)	Com. 4					-	-	-	TDC	
	Improve the human and institutional capacities in TDC	Organizational restructuring	TDC					-	-	-	TDC	MWRWH, Training Institutions
		ICT Upgrade Project	TDC					-	-	-	TDC	MWRWH, Training Institutions
		Staff training	TDC					-	0.650	-		
1.Increase access to adequate, safe, secure and affordable shelter	Support the creation of land Banks	Acquisition of Lands	1.Shai Hills, Osu doku, Ho,Cape Coast,Kajasi, (country wide)					-	0.250	-	SHC	Land Commission, local govt, forestry ,interior, town and country planning
	Adopt and enforce the reviewed national building codes	Integration of building codes into Construction of Estates Houses	Country wide					-	0.803	-	SHC	AESL, Highways, Ghana Water, ARC, SHC
	Support technical and other educational institutions, other professional bodies to train more human resources required for planning and the construction sector	Granting opportunity for students to do attachments, national service and employment	Country wide					-	0.013	-	SHC	GES, Universities, Ministry of education, NSS
	Promote the use of pozzolana cement in the construction industry	Promote the use of pozzolana cement in the construction industry	Country wide					-	0.500	-	SHC	MWRWH,MESTI ,GIA,GIP,EPA,PPA,NADMO,MM DA 's, GhiE, GhiS

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
	Promote and develop high rising buildings	Urban regeneration	Country wide					-	7.500	-	SHC	MWRWH,MESTI ,GIA,GIP,EPA,PPA,NADMO,MM DA 's, GhiE, GhiS
	Promoting waste management and recycle	Promoting waste management and recycle	Country wide					-	8.750	-	SHC	MWRWH,MESTI ,GIA,GIP,EPA,PPA,NADMO,MM DA 's, GhiE, GhiS
Promote sustainability through human settlement and development	Promote orderly growth of settlements through effective land use planning and management	Ensuring an orderly self sustaining Planning Schemes	Country wide					-	7.500	-	SHC	Town & Country Planning Authorities, development partners, MOJ and AGD
Improve and accelerate housing delivery in the peri-urban areas	Promote improvements in housing standards, design, financing and construction	Ensuring that housing designs financing and construction meets the national standards	Country wide					-	5.631	-	SHC	Town & Country Planning Authorities, Land commission
TOTAL								6.472	342.797	-		

3.3 RURAL HOUSING MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GOG	IGF	Donor	Lead	Collaborating
Improve and accelerate housing delivery in the rural areas	<ul style="list-style-type: none"> Promote the manufacture and use of brick and tile Promote the manufacture and use of local building materials and appropriate technologies in housing 	Training of 150N ^o District Assemblies Technicians	Nationwide					0.031	-	-	DRH	MMDAs, NGOs, GREDA
		Sensitization and Awareness	Nationwide					0.012	-	-	DRH	MMDAs, NGOs, GREDA
		Construction of 300N ^o Rural Houses	Nationwide					0.625	-	-	DRH	MMDAs, NGOs, GREDA
		Rehabilitation of 150N ^o Rural Houses	Nationwide					0.300	-	-	DRH	MMDAs, NGOs, GREDA
		Establish 4N ^o model villages	Nationwide					0.050	-	-	DRH	MMDAs, NGOs, GREDA
		Establish 30N ^o District Assembly staff housing	Nationwide					0.150	-	-	DRH	MMDAs, NGOs, GREDA
		Establish 135N ^o Training centers	Nationwide					1.500	-	-	DRH	MMDAs, NGOs, GREDA
		Construction skills training in District Assemblies						0.600	-	-	DRH	MMDAs, NGOs, GREDA
		Establish 30N ^o Material banks						0.250	-	-	DRH	MMDAs, NGOs, GREDA

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
		Establish Corporative Housing Schemes in fifteen (15) region	Nationwide					0.060	-	-	DRH	MMDAs, NGOs, GREDA
		Complete the Rehabilitation of Official Bungalows nationwide	Nationwide					-	-	-	DRH	MMDAs, NGOs, GREDA
TOTAL								3.579	-	-		

3.4 MANAGEMENT OF PUBLIC CONSTRUCTION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3 rd	4th	GOG	IGF	Donor	Lead	Collaborating
Improve and accelerate housing delivery in the rural areas	Promote improvements in housing standards, design, financing and construction Promote self-help building schemes organized along communal themes, co-operative societies, and crop and trade associations	Training of probationers in the architectural profession.	Nationwide					0.025	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Development control workshop for technicians	Nationwide					0.028	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Professional practice exams and induction ceremony.	Accra					0.048	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Sensitization and advocacy program on the use of local building materials	Nationwide					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Training for small and medium scale contractors	Nationwide					0.025	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Review of Architects Decree NLCD, 1969 357	Accra					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Staff Training	Accra					0.015	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Review of the Professional Practice Syllabus	Accra					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Monitoring of the KNUST and CUC schools of Architecture	Kumasi					0.012	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Publication / Gazetting of the registration of Architects and Architectural Firms	Accra					0.015	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Continuous Professional development (CPD) for Architects	Nationwide					0.020	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Rehabilitate, refurbish and maintain the existing office building of ARC	Accra					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Purchase of plant and Equipment	Accra					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
Rehabilitation of Engineers Council							-	-	-	EC	MWRWH, GhIE,	

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
		Office building						0.030				PPA, MMDA's
		Purchase of office facilities and supplies						0.100	-	-	EC	MWRWH, GhIE, PPA, MMDA's
		Training of staff of the Engineers Council						0.029	-	-	EC	MWRWH, GhIE, PPA, MMDA's
Increase access to adequate, safe, secure and affordable shelter	Adopt and enforce the reviewed national building codes	Ensure the incorporation of standardized building codes in the designs of building structures	Nation-wide					-	0.130	-	AESL	MWRWH, GNFS, EPA, TCPD, MMDAs
	Set standards for local construction materials	Specification of approved local construction materials in various designs	Nation-wide					-	0.026	-	AESL	BRR1, MWRWH
	Support technical education institutions and other professional bodies to train more human resources required for planning and the construction sector	Students' attachment programmes	Nation-wide					-	0.018	-	AESL	Polytechnics, Universities, Others
		Financial support for professional bodies	Gt Accra and Ash. Regions					-	0.025	-	AESL	GhIS, GhIE, GIA
Improve and accelerate housing delivery in the rural areas	Support the use of pozzolana cement in the construction industry	Incorporation of the use of Pozzolana cement in designs	Nation-wide					-	0.415	-	AESL	ABCEC, PGL, MMDAs
		Education on the use of Pozzolana	Nation wide					-	0.008	-	AESL	Pozzolana Gh. Ltd, ABCEC, MMDAs
Ensuring the safety of lives and properties	Ensuring stability of structures	Conducting structural integrity test on both old and new buildings	Nation-wide					-	0.750	-	AESL	Private, Quasi and Public Sector Institutions
Ascertain the status and value of land and buildings	Ensure the true value of land and buildings	Valuations of land and buildings	Nation-wide					-	0.255	-	AESL	Private, Quasi and Public Sector Institutions
Increase access to adequate, safe, secure and affordability	Improve the human and institutional capacity of AESL	Capacity building for AESL staff	Nation-wide					-	0.050	-	AESL	GhIS, GhIE, GIA, ARC
TOTAL								0.347	1.677	-		

4.0 PROGRAMME FOUR – INFRASTRUCTURE SECTOR MANAGEMENT

4.1 WORKS SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase resilience of coastal settlement and infrastructure	<ul style="list-style-type: none"> • Provide national guidance and standards for addressing multi-hazard threats • Ensure resettlement of vulnerable communities 	Develop an Action Plan for the implementation of the National Maintenance Policy	Accra					0.03	-	-	Works Dir.	
		Develop an Infrastructure (GoG landed properties, Drainage system and coastal) fund Policy	Accra					0.03	-	-	Works Dir.	
		Complete 50N ₀ Keta Sea Defence Resettlement Housing Units	Kedzi, Vodza, Adzido					3.00	-	-	Works Dir.	
		Construct H. E. the President's Emergency Drainage Projects	Nationwide					11.50	-	-	Works Dir.	
		Implement the Annual National Flood Control programme	Nationwide					6.00	-	-	Works Dir.	
		Rehabilitate the existing ministerial block of offices	Accra					0.23	-	-	Works Dir.	
		Complete the Korle Lagoon Ecological Restoration Project	Accra					2.50	-	-	Works Dir.	
		Monitored and Evaluated the Works Directorate programmes	Nationwide					0.23	-	-	Works Dir.	
TOTAL								23.52	-	-		

4.2 GENERAL MAINTENANCE MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase resilience of coastal settlement and infrastructure	Ensure resettlement of vulnerable communities	Renovation of Government bungalows	Nationwide					1.500	-	-	PWD	MWRWH
		Refurbishment of PWD regional offices	Nationwide					0.500	-	-		
TOTAL								2.000	-	-		

4.3 DRAINAGE MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
1.Minimize the impact of and develop adequate response strategies to disasters	Proper planning of drainage systems	Construction of Sakaman drain lot I	Sakaman					0.400	-	-	HSD	MWRWH, MOFEP, MLGRD, TCPD, EPA, NADMO, MEST
		Construction of Goaso drain lot I	Goaso					0.300	-	-		
		Construction of Goaso drain lot II	Goaso					0.600	-	-		
		Construction of Goaso drain lot III	Goaso					1.300	-	-		
		Construction of Mim drain	Mim-					0.100	-	-		
		Extension of Nima Drain Ph I	Nima					0.300	-	-		
		Stormwater drainage improvement works at Winneba lot II	Winneba					0.600	-	-		
		Akora River drainage project	Agona Swedru					24.000	-	-		
		Construction of Asankragua drain lot II	Asankragua					0.755	-	-		
		Construction of Asankragua Lot III	Asankragua					0.915	-	-		
		Construction of Tamale drain lot I	Tamale					1.500	-	-		
		Construction of Tamale drain lot II	Tamale					1.500	-	-		
		Construction of Kumawu drain lot I	Kumawu					0.750	-	-		
		Construction of Kumawu drain lot II	Kumawu					0.750	-	-		
		Construction of Ejura drain lot I	Ejura					1.400	-	-		
		Construction of Ejura drain lot II	Ejura					1.400	-	-		
Construction of Tapa drain lot I	Tapa					1.400	-	-				
Construction of Tapa drain lot II	Tapa					23.118	-	-				
Onyasias upstream drain	East Legon					46.250	-	-				
		TOTAL						107.338				

4.4 COASTAL MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
2. Improve investment in coastal structures and technologies	Direct investment in control structures Gabions and boulder revetments to arrest erosion	Dansoman Emergency Coastal Protection Works.	Dansoman					39.000	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Construction of Anomabu Sea Defence Project	Anomabu					-	-	-		
		Construction of Ada Coastal (Phase II)	Ada					-	-	30.122		
		Construction of New Takoradi Sea Defence Project	New Takoradi - WR					-	-	-		
		Aboadze Coastal Protection Works	Aboadze – W/R					35.625	-	-		
		Atorkor - Dzita – Anyanui Sea Defence Project	Atorkor, Dzita,					30.000	-	-		

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
		PH III	Anyanui						-	-		
		Sakumono Sea defence Protect PH II	Sakumono – Greater Accra.					50.000	-	-		
		Ngiresia Sea Defence Project	Ngiresia- W/R					29.000	-	-		
		Adjoa (Near Takoradi) Coastal Protection Works	Adjoa (Near Takoradi)					17.250	-	-		
		Amanful Kumah Coastal Protection Works	Amanful Kumah					23.000	-	-		
		Nkontompo/New Takoradi Coastal Protection Works.	Nkontompo -W/R					28.750	-	-		
TOTAL								252.625	-	30.122		

4.5 OPERATIONAL HYDROLOGY

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Enhance capacity to mitigate and reduce natural disasters ,risks and vulnerability	Invest in early warning and response systems	Renovation of river gauging stations , changing of automatic water level recorders	Across the nation					0.800	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Installation and maintenance of Telemetry systems	In the White Volta Basin					0.800	-	-		
TOTAL								1.600	-	-		

5.2.4 2017 ANNUAL ACTION PLAN

1.0 PROGRAMME ONE – GENERAL ADMINISTRATION AND MANAGEMENT

1.1 GENERAL ADMINISTRATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time frame				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Improve the human and institutional capacities of the relevant institutions.	Procure office facilities and supplies for the Ministry	Accra					0.931	-	-	Gen. Admin Directorate	Sector Directorates
TOTAL								0.931	-	-		

1.2 FINANCE

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Ensure secure, adequate and sustainable financing	Implement measures to increase financial and investment absorptive capacity of the sector	Prepare quarterly financial reports	Accra					0.006	-	-	Finance Directorate	Sector Directorates, Departments and Agencies
		Prepare Annual financial reports	Accra					0.003	-	-	Finance Directorate	
		Train staff in advanced Microsoft excel applications	Accra					0.029	-	-	Finance Directorate	HR Directorate
TOTAL								0.037	-	-		

1.3 HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Ensure the adequate staffing, upgrading of relevant skills and enhance the equipment	Develop and retain human resource capacity at national, regional and district levels	Improve capacities of Heads of Directorate, Departments and Agencies and their HR officers in Performance Management.	Accra					0.042	-	-	HR Dir.	Sector Directorates, Departments and Agencies
		Conduct Sector wide skills development training in GoG rules and regulations for HR and Personnel Officers	Accra					0.038	-	-	HR Dir.	
		Participate in executive development programmes	Worldwide								-	HR Dir.

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies		
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating	
base of institutions		for Directors					0.040	-					
		Train Directors , Heads of Departments and Agencies in Public private partnerships management	Accra					0.039	-		-	HR Dir.	Sector Directorates, Departments and Agencies
		Undertake Scheme of service development programmes.	Accra					0.036	-		-	HR Dir.	Directorates,
TOTAL								0.222	-	-			

1.4 POLICY PLANNING, BUDGETING, MONITORING AND EVALUATION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Improve Sector institutional capacity.	Enhance the capacities of Institutions for effective planning of human settlements	Organize Mid-year review of annual budget performance	Accra					0.063	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
		Organize Terminal Evaluation of the Sector Medium Term Development Plan	Accra					0.051	-	-		
		Organize Terminal Evaluation of the Sector Monitoring and Evaluation Plan	Accra					0.051	-	-		
		Implement the M&E Action plan	Nationwide					0.127	-	-		
		Prepare Annual progress reports	Accra					0.006	-	-		
		Prepare quarterly budget performance reports	Accra					0.006	-	-		
Ensure secure, adequate and sustainable financing	Implement measures to secure adequate GoG annual budgetary allocation for the sector	Prepare Annual Budget Estimates for ensuing year	Accra					0.032	-	-	PPBME	Directorates, Departments, Agencies, NDPC, MoF
TOTAL								0.335	-	-		

1.5 RESEARCH, STATISTICS AND INFORMATION MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Improve the human and institutional capacities of	Publication of Sector Quarterly Newsletter						0.005	-	-	RSIM	Directorate, Departments and Agencies
		Participation in Meet-The-Pres series						0.015	-	-	RSIM	MoIMR, Directorate, Departments and

MDAs Adopted Policy objectives	MDAs Adopted Strategies the relevant institutions	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
												Agencies
		Research/Impact Assessment on Relevant Policies and Programmes	Ministry					0.080	-	-	RSIM	Directorate, Departments and Agencies
		Preparation and Submission of Annual Performance Report to OHCS	Ministry					0.001	-	-	RSIM	OHCS, Directorate, Departments and Agencies
		Organisation of Public Sensitization on Policies and Programmes by the Hon. Minister and Deputies	Ministry					0.050	-	-	RSIM	Directorate, Departments and Agencies
		Research conducted, Data Collated and Compiled to update database for Decision making and Policy Formulation	Ministry					0.060	-	-	RSIM	Directorate, Departments and Agencies
		Rehabilitation of Information Centre/Library	Ministry					0.025	-	-	RSIM	
		Facilitate Training of 20No. staff in the use of ICT	Ministry					0.045	-	-	RSIM	HRM
		Evaluation of the ICT Policy a	Ministry					0.007	-	-	RSIM	
		Review existing and Develop New Sector publications (Sector Handbook, Service Brochure, Ministry's Service Charter)	Ministry					0.025	-	-	RSIM	Directorate, Departments and Agencies
		Participation in International Fairs National and Regional Policy Fairs	Ministry					0.030	-	-	RSIM	Directorate, Departments and Agencies
		Organisation of Press releases/Radio/TV discussions	Ministry					0.050	-	-	RSIM	Directorate, Departments and Agencies
		Quarterly Update of Information on Website	Ministry					0.003	-	-	RSIM	Directorate, Departments and Agencies
		Conduct Beneficiary/Clients Service Surveys	Ministry					0.005	-	-	RSIM	
		Update Informational Materials in Ministerial Library/Resource Centre	Ministry					0.002	-	-	RSIM	
		Update information on Conventions, Statutory Acts, ,MOU's and Contracts	Ministry					0.002	-	-	RSIM	Directorate, Departments and Agencies
TOTAL								0.405	-	-		

1.6 INTERNAL AUDIT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Promote transparency and	Enforce the implementation	Conduct asset management audit	PSHLSB					0.002	-	-	IAU	Finance Directorate
		Organize ARIC meeting	Ministry					0.024	-	-	IAU/ARIC	Directorate, General

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
accountability and reduce opportunities for rent seeking	of the Public Procurement Act, Internal Audit Agency Act and other Financial Management Regulations	2 Officers to attend training on I.T. Auditing	Ministry					0.005	-	-	Secretariat	Administration
		Verification and inspection of projects	Ministry					0.036	-	-	IAU	PPBME Directorate
		One officer to attend Conference	Ministry					0.025	-	-	IAU	IIA
		Conduct procurement and stores management Audit	DRH/ RCD					0.003	-	-	IAU	
		Conduct payroll/personnel management audit	Ministry/HSD					0.010	-	-	IAU	
		2 Officers to attend training in Risk/system based auditing	Ministry					0.005	-	-	IAU	IIA/IAA
		Follow-up on previous audit by IAU and GAS	Ministry					0.006	-	-	IAU	
		Conduct Financial audit	Ministry					0.007	-	-	IAU	
		Prepare 2018 budget and audit plans	Ministry					0.006	-	-	IAU	PPBME
		Prepare strategic plan for the Unit	Ministry					0.015	-	-	IAU	PPBME/RSIM
		TOTAL										
							0.143	-	-			

2.0 PROGRAMME TWO - WATER AND SANITATION MANAGEMENT

2.1 WATER SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
To accelerate the provision of adequate, safe and affordable water	Establish and operationalize mechanisms for water quality monitoring	Coordinate the development of a national water safety plan (to clarify safety standards for water service, river basin management and responsible institutions)	Nationwide					0.200	-	-	Water Dir.	CWSA, WRC, GWCL, FDA, GSA, PURC
	Establish and operationalize mechanisms for water quality monitoring	Collaborate, lead and monitor the quality of water across the country	Nationwide					0.200	-	-	Water Dir.	CWSA, WRC, GWCL, FDA, GSA, PURC, EHSD
To ensure the development and implementation of health education as a component of all water and sanitation	Promote behavioural change(hand washing with soap, household water treatment and safe storage, safe excreta disposal) for ensuring Open Defecation-Free Communities	Monitor the implementation of PPP framework on hand washing with soap at community and DA level.	Nationwide					0.250	-	-	Water Dir.	CWSA, EHSD, UNICEF, PSP
		Coordinate the Implementation of national household water treatment and safe storage strategy	Nationwide					0.150	-	-	Water Dir.	CWSA, EHSD, UNICEF, PSP

MDAs Adopted Policy objectives programmes	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
To adopt a sector-wide approach to water and environmental sanitation delivery	Develop and implement a Strategic Sector Development Plan. Develop and implement a comprehensive M&E for the water and sanitation sector. Incorporate cross-cutting themes such as: gender, environment, public sector reform, decentralization and governance in the implementation of SWAP	Strengthen the Institutional capacity of the WD	Nationwide					0.500	-	-	Water Dir.	HRMD, MoF, OHCS
		Review the Water Sector Strategic Development Plan (WSSDP) to address emerging challenges and issues as outlined in the National Water Policy	Nationwide					0.300	-	-	Water Dir.	CWSA, WRC, GWCL, Sector Stakeholders
		Establish an MIS Unit within the Water Directorate to track progress within the WASH Sector	Nationwide					0.100	-	-	Water Dir.	PPBME, RSIM
		Lobby to ensure that adequate logistics and budgetary support are provided for WASH activities of District Works Departments in all MMDAs	Nationwide					0.050	-	-	Water Dir.	CWSA, GWCL, WRC, MoF, MLGRD
		Support all DAs to pass and gazette bye-laws to legalize WSMTs	Nationwide					0.140	-	-	Water Dir.	MLGRD
		Facilitate review/update of DWSPs as part of the process for preparing DMTDPs in all MMDAs	Nationwide					0.500	-	-	Water Dir.	MLGRD
		Institute annual auditing of the accounts of WSMTs by MMDAs	Nationwide					0.700	-	-	Water Dir.	MLGRD, GAS
		Publish annual statement of accounts of CWSA, GWCL and WRC in the national dailies	Nationwide					0.020	-	-	Water Dir.	CWSA, GWCL, WRC, GAS, MoF, CAGD
		Establish and operationalise level learning alliance platforms in all regions	Nationwide					0.250	-	-	Water Dir.	RCN, IRC, GWCL, CWSA, WRC
		Establish an Inter-Ministerial Steering Committee (IMSC) for water	Nationwide					0.050	-	-	Water Dir.	MLGRD, MoF
		Institutionalise monthly sector working group meetings	Nationwide					0.032	-	-	Water Dir.	MLGRD- EHSD, MoF
		Monitor the implementation of the activities outlined in the SSDP to inform policy	Nationwide					0.200	-	-	Water Dir.	CSWSA, GWCL, WRC, EHSD
		Facilitate the county's financial contribution, participation and implementation in international programmes and plans (e. g. VBA, GEF-Volta, GWP/WA and AMCOW)	Nationwide					0.200	-	-	Water Dir.	WRC, MoF
		Set up a national M&E coordination group for the sector with clear terms of reference	Nationwide					0.050	-	-	Water Dir.	Sector Stakeholders

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
		Ensure the setting up and resourcing of M&E units at GWCL, WRC and CWSA to provide regular update on agreed sector indicators.	Nationwide					0.005	-	-	Water Dir.	GWCL, CWSA, WRC
		Design and implementation of framework for collaborating with MGCSP in WASH delivery	Nationwide					0.065	-	-	Water Dir.	MGCSP, MLGRD
		Lead the organization of the Annual Ghana Water Forum	Nationwide					0.300	-	-	Water Dir.	Sector Stakeholders
		Lead in the design and publications of the following reports: Annual Reports (WASH Annual report, Water focus, Ghana Water Forum report, Ghana Water Forum Journal etc) prepared	Nationwide					0.200	-	-	Water Dir.	CWSA, GWCL, WRC, EHSD
		Coordinate the organization of the Annual Inter School Quiz competition	Nationwide					0.220	-	-	Water Dir.	CWSA, GWCL, WRC, EHSD, GES
		Ensure the rolling out of the DiMES software in all MMDAs	Nationwide					0.030	-	-	Water Dir.	CWSA, MLGRD
To ensure secure, adequate and sustainable financing		Carry out quarterly review of water tariffs in accordance with PURC's automatic adjustment formulae	Nationwide					0.030	-	-	Water Dir.	PURC, GWCL, MoF
		Ensure the implementation of the framework on private sector participation in the water sector including financing (BOO, BOT etc.)	Nationwide					0.010	-	-	Water Dir.	MoF
		Purchase three (3) cross country vehicles to support monitoring and coordination activities of the Directorate	Nationwide					0.240	-	-	Water Dir.	MoF
To improve sector institutional capacity	Strengthen the capacity of the Water Directorate. Build the capacity of district assemblies to better manage water resources as well as water and environmental sanitation. Enhance the mandate and capacity of lead sector agencies (WRC, GWCL, and CWSA) facilities.	Ensure the routine training for WATSAN C'tees, WSMTs, Pump Caretakers and Area Mechanics	Nationwide					0.150	-	-	Water Dir.	CWSA, MLGRD
		Provide technical support to CONIWAS to track sector investments and report on NGO contributions to the sector	Nationwide					0.140	-	-	Water Dir.	GWCL, WRC, CWSA
		Provide adequate resources for sector learning platforms and extend learning alliance platforms to the regional levels	Nationwide					0.050	-	-	Water Dir.	MoF, DPs
		Provide support for research on sector issues	Nationwide					0.150	-	-	Water Dir.	MoF
		Participate in Annual WASH conferences and For a around the World	Nationwide					0.150	-	-	Water Dir.	MoF
		Capacity building and training of the Water Directorate Staff	Nationwide					0.270	-	-	Water Dir.	MoF

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
TOTAL												
								5.902	-	-		

2.2 WATER RESOURCES MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Ensure efficient management of water resources	1. Support relevant state agencies, District Assemblies and local communities to undertake reforestation programme for water sheds protection	1. Promote and implement schemes for harmonized protected land strips/areas along open water bodies. 2. Initiate the administration of Legislative Instrument on buffer zone policy.	Nationwide						0.395		WRC	MMDAs, FC, MDAs, MLGRD, EPA, NGOs, CSOs
	3. Set up mechanisms and measures to support encourage and promote rainwater harvesting.	1. Continue public education on the institutionalization of rainwater harvesting 2. Promote community rainwater harvesting schemes for water conservation and improving livelihoods	Nationwide						0.235	0.126	WRC	CWSA, CSIR, MDAs, MMDAs, CONIWAS
	4. Improve access to water resources knowledge base to facilitate water resources planning and decision making	1. Guide and obtain data on river flows in selected basins. 2. Carry out sustained monitoring of groundwater resources. 3. Carry out ecological monitoring of water bodies. 4. Undertake monitoring and analysis of raw water quality.	Nationwide						0.286		WRC	CSIR, GAEC, HSD, GMet
	5. Continue establishment of functional management structures for selected major river basins	1. Complete set up of 2 new priority basins with functional basin offices and boards	Nationwide						1.575		WRC	RCCs, MMDAs, MLGRD
	6. Promote climate change adaptation in water resources management for water security and improved livelihoods	1. Increase public awareness for disaster risk preparedness and risk reduction targeting vulnerable groups of society 2. Support community based climate change adaptation and risk reduction initiatives	Upper East and Northern Regions						-	1.500	WRC	HSD, GMet, NADMO, MMDAs

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
	7. Enhance trans-boundary water resources cooperation and management	1. Organise technical meetings/activities of the Ghana-Burkina Joint Technical Committee on IWRM 2. Facilitate Ghana's participation in activities/initiatives of the Volta Basin Authority and the ECOWAS/WRCC 3.Facilitate the development and ratification of international protocols with riparian states	Nationwide					-	0.423	-	WRC, MWR, WH	AGD, MFA, MFEP, Parliament
	8. Strengthen the regulatory framework for managing and protecting water resources for water security	1. Administer and monitor compliance of the Water Use Regulations (LI 1692) and Drilling License and Groundwater Development Regulations (LI 1827) 2. Administer the Dam Safety Regulations 3. Review existing regulations	Nationwide					-	0.475	-	WRC	EPA, MMDAs, HSD, VRA, GIDA, CSIR, GMet, GWCL
	9. Enhance public awareness and education in water resources management.	1. Implement the new Communication Strategy 2. Undertake educational campaigns including documentaries and media programs 3. Train collaborative agencies. 4. Develop and disseminate educational materials. 5. Organize notable events including World Water Day	Nationwide					-	0.450	-	WRC	MMDs, Media, NGOs
	10. Promote scientific investigations in research in water resources assessment, development and management	1. Promote further hydrogeological investigations nationwide 2. Carry out research on strategies for adaptation to climate change	Nationwide,					-	-	.970	WRC	CSIR, GAEC, UG, EPA, VRA, MWRWH, MOFA, CWSA
	11. Ensure the preparation and implementation of river basin and national IWRM plans and strategies	1. Develop IWRM plans for new priority basins 2. Implement actions on the developed basin and national IWRM Plans	Nationwide					-	0.837	-	WRC	MMDAs, NGOs, FC, MLGRD, CSOs, GWCL, MC
	12. Develop and enhance human and institutional capacities for the efficient and effective governance of water resources	1. Undertake staff needs and training programs/events 2. Implement the new Gender and WRM strategy. 3. Continue institutional capacity actions including functional website and library	Accra, Koforidua, Kumasi, Tarkwa, Bolgatanga, Sunyani					-	0.403	-	WRC	DPs, Private Sector

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
	13. Develop and implement incentive mechanisms such as payment for ecosystem services for water resources management	1. Implement PES on extended basis in the Pra and Kakum basins	Pra and Kakum basins					-	0.250	1.000	WRC	EPA, FC, MC, HSD, CSIR, GWCL, Gmet, MMDAs, CSOs, NGOs, Private Sector, DPs
TOTAL								-	5.327	4.596		

2.4 URBAN WATER MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate safe and affordable water	1. Mobilize investments for the construction of new, and rehabilitation and expansion of existing water treatment plants	Sunyani Water Supply	Sunyani					0.400	-	166.188	GWCL	PURC, CWSA, MMDA's
		Damongo WSP	Damongo					-	-	16.560		
		Agordome Assin Fosu WSP	Agordome Assin Fosu					0.300	-	77.806		
		Cape Coast Water Supply - Addendum	Cape Coast					0.400	-	17.550		
		Sekondi Takoradi Water Supply Project	Sekondi Takoradi					1.000	-	219.685		
		Essiama Enclave WSP	Essiama					1.000	-	238.876		
		Dormaa Ahenkro, Berekum and Suhum Water Supply Project	Dormaa Ahenkro, Berekum Suhum					-	-	204.137		
		Keta Water Supply Project	Keta					-	-	63.700		
		Aflao, Abor and Agbozume Water Supply Project	Aflao, Abor Agbozume					-	-	68.188		
		Kpeve Water Supply Project	Kpeve					-	-	100.192		
		Water Project For Rehabilitation of Existing Works and Expansion Works	Nationwide					1.167	-	271.998		
		Wa Water Supply Expansion Project	Wa					0.500	-	-		
		Yendi Water Supply Project	Yendi					-	-	21.000		
		Tamale Water Supply Project	Tamale					0.400	-	117.900		
		Kpong - Accra Transmission Pipeline + Expansion of 6.6MGD	Kpong - Accra					1.167	-	77.854		
Techiman Water Supply Project	Techiman					0.500	-	48.832				
Accra and Kumasi Distribution Network Strengthening	Accra Kumasi					0.833	-	105.000				
Accelerate	2. Ensure	Installation of Electromechanical Equipment	Nationwide					-	122.850			

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies			
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating		
the provision of adequate safe and affordable water	efficient management of assets, including water sources	Weija Fencing and Catchment restoration	Weija						-					
		Aquatic Weed clearing on Kpong, Weija, Tanoso, Owabi, Barekese, Brimsu, Kwanyaku	Kpong, Weija, Tanoso, Owabi, Barekese, Brimsu, Kwanyaku					2.167	-	1.584				
		Services for the Enhancement of Nationwide Water Network Management (GIS Nationwide Project)	Nationwide					1.500	-	665.437	GWCL	PURC, CWSA, MMDA's		
Accelerate the provision of adequate safe and affordable water	3. Implement demand management measures for efficient water use	Services for the Enhancement of Nationwide Water Network Management (GIS Nationwide Project)	Nationwide											
Accelerate the provision of adequate safe and affordable water	4. Encourage Public- Private Partnerships in water services delivery	Teshie Desalination (PPP)	Teshie					0.833	-	0.063				
		Asutsuare Water PPP	Asutsuare					1.167	-	0.088				
		Sogakope - Lome WSP	Sogakope - Lome					1.067	-	-				
		Cape Coast Water Supply - Additional works	Cape Coast					-	-	1.127				
	5. Strengthen the sub-sector management systems for efficient service delivery	Establishment of District office	Nationwide					1.000	-	0.075				
		Installation of Prepaid Metering	Nationwide											
TOTAL								15.400	-	2,608.110				

2.5 RURAL WATER MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Accelerate the provision of adequate, safe and affordable water	Increase access to potable water	*Procure of goods, works and services *monitor construction and consultancy activities	Nation-wide					13.00	-	40.00	CWSA	MMDAs, MWRWH, Private sector
								0.75			CWSA	MMDAs, MWRWH, Private sector
										265.00	CWSA	MMDAs, MWRWH, Private sector
								12.00			CWSA	MMDAs, MWRWH, Private sector
											CWSA	MMDAs, MWRWH,

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
	Increase access improved sanitation and hygiene services	*Scale up CLTS *Deepen the PPP in Hand washing with soap campaign *Promote household treatment technologies	Nation-wide							160.00		Private sector
										145.00	CWSA	MMDAs, MWRWH, Private sector
								-	-	-	CWSA	MMDAs, GWCL
Accelerate the provision of adequate, safe and affordable water	Develop and manage alternative sources of water, including rain water harvesting	*Scale-up piloted for rain water harvesting technology	Nation-wide							6.00	CWSA	MMDAs, MWRWH, Private sector
	Provide backstopping for operation and maintenance of existing facilities for sustainability	*Undertake monitoring visits and provide backstopping	Nation-wide					0.28			CWSA	MMDAs, MWRWH, Private sector
TOTAL								26.04	-	616.00		

3.0 PROGRAMME THREE – HUMAN SETTLEMENT DEVELOPMENT

3.1 HOUSING SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies		
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating	
Increase access to safe, secure and affordable shelter adequate,	Develop a national housing policy	Undertake sensitization/Awareness Programmes on the Policy	Nationwide					0.052	-	-	HD	MMDAs, DPs, CSO, Private Sector	
		Implement the redevelopment programme to increase the housing stock for public workers	Greater Accra					3.900	-	-	HD	MMDAs, Private Sector	
		Completion of 1,526No. affordable housing units	Kpone							33.33	HD	MMDAs, GREDA, GIA, GhIE, Private Sector	
		Completion of 662No. affordable housing units	Koforidua; Tamale; Wa										
		Construction of 5,000 Housing Units by M/s Construtora OAS	Nationwide							104.00	HD	GREDA, GIA, GhIE, Construtora OAS	
		Construction of 4,120 Housing Units by M/s Itai Construct	Nationwide							104.00			
		Construct housing units for Public Servants	Nationwide					19.500	-	-	HD	MMDAs, GREDA, GIA, GhIE, Private	

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
		Construct 368N housing units for the security services under the Security Services Housing Programme Phase II	Tema					19.500	-	-		Sector
	Support the creation of land Banks	Identify and procure land banks for affordable housing projects	Nationwide					0.650	-	-	HD	MMDAs, GREDA
	Adopt and enforce the reviewed national building codes	Review of building regulations (LI 1630) and Sensitization/ Awareness of Reviewed Building Code and regulations	Nationwide					0.065	-	-	HD	MMDAs, DPs, CSO, Private Sector
	Introduce major slum renewal programmes	Support the Implementation of the Slum Upgrading and Prevention Strategy	Nationwide					0.650	-	-	HD	MWRWH, MMDAs, DPs, CSO, Private Sector
		Payment of subscription to International Organisations (UN-HABITAT, AMCHUD)						0.078	-	-	HD	UN-HABITAT, AU
TOTAL								44.317	-	241.333		

3.2 URBAN HOUSING MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Increase access to adequate, safe, secure and affordable shelter	Provide support for private sector involvement in the delivery of rental housing	Embark on a national public education and sensitization programme					0.100	-	-	RCD		
		Renovation and refurbishment of rent control offices,					0.300	-	-	RCD		
		Capacity building of rent officers					0.023	-	-	RCD		
		Disburse housing loans					7.000	-	-	PSHLSB		
Provide support for private sector involvement in the delivery of rental housing	Provision of Infrastructural Services	Community 24 - Tema								TDC	ECG, GWCL, DUR, MMDAs	
		Community 24 Extension										
Promote the use of pozzolana cement in the construction industry		All construction projects	Tema Acquisition Area (TAA)							TDC/ BRR1	MWRWH	
Skew development in favour of High-rise		Construction of Flats	Com. 1							TDC	AESL, ECG, GWCL, DUR, MMDAs	

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
	apartments Adopt rapid construction methods in housing delivery		Com. 23						60.000		TDC	AESL, ECG, GWCL, DUR, MMDAs
	Deploy dedicated technical team to supervise execution of project by Direct Labour contractors	Affordable Housing	Kpone						5.200		TDC	AESL, ECG, GWCL, DUR, MMDAs
		Infrastructure										
		Staff housing	Com. 22					7.000				
	Support mortgage financing	Sale of flats	Com. 1								TDC	Mortgage Finance Institutions
			Com. 22									
			Com. 23									
			Kpone									
	Support the creation of land banks	Land Acquisition	Shai Hills, Prampram, Ningo, Winneba, V/R								TDC	Lands Commission, MWRWH, Traditional Councils
	Collaborate with Security Agencies to nib encroachment and unauthorised development in the bud as a way of protecting Government Lands	Land protection	TAA								TDC	Security Agencies, Lands Commission, MWRWH
Urban renewal and Redevelopment	Shops & offices	Com. 2								TDC	MWRWH, ECG, GWCL, MMDAs, DUR, Security Agencies, GPHA	
	Kaizer flats redevelopment (Phase 1)	Com. 4						75.000				
	Improve the human and institutional capacities in TDC	Organizational restructuring	TDC								TDC	MWRWH, Training Institutions
ICT Upgrade Project		TDC						0.750				
Staff training		TDC										
1.Increase access to adequate, safe, secure and affordable shelter	1.1 Support the creation of land Banks	1 .Acquisition of Lands	1.Shai Hills, Osu doku, Ho,Cape Coast,Kajasi, (country wide)						0.250		SHC	Land Commission, local govt, forestry ,interior, town and country planning
	1.2 Adopt and enforce the reviewed national building codes	1.intergation of building codes into Construction of Estates Houses	Country wide						0.803		SHC	AESL, Highways, Ghana Water, ARC, SHC

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
	1.3 Support technical and other educational institutions, other professional bodies to train more human resources required for planning and the construction sector	1. Granting opportunity for students to do attachments, national service and employment	Country wide						0.013		SHC	GES, Universities, Ministry of education, NSS
	Promote the use of pozzolana cement in the construction industry	Promote the use of pozzolana cement in the construction industry	Country wide						0.500		SHC	MWRWH, MESTI, GIA, GIP, EPA, PPA, NAD MO, MMDA 's, GhiE, GhiS
	Promote and develop high rising buildings	Urban regeneration	Country wide						7.500		SHC	MWRWH, MESTI, GIA, GIP, EPA, PPA, NAD MO, MMDA 's, GhiE, GhiS
	Promoting waste management and recycle	Promoting waste management and recycle	Country wide						8.750		SHC	MWRWH, MESTI, GIA, GIP, EPA, PPA, NAD MO, MMDA 's, GhiE, GhiS
Promote sustainability through human settlement and development	2.1 Promote orderly growth of settlements through effective land use planning and management	Ensuring an orderly self sustaining Planning Schemes	Country wide						7.500		SHC	Town & Country Planning Authorities, development partners, MOJ and AGD
2. Improve and accelerate housing delivery in the peri-urban areas	2.2 Promote improvements in housing standards, design, financing and construction	Ensuring that housing designs financing and construction meets the national standards	Country wide						5.631		SHC	Town & Country Planning Authorities, Land commission
TOTAL								7.423	178.897	-		

3.3 RURAL HOUSING MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Improve and	• Promote the manufacture and	Training of 150N ^o District Assemblies Technicians	Nationwide					0.040	-	-	DRH	MMDAs, NGOs, GREDA

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
accelerate housing delivery in the rural areas	use of brick and tile • Promote the manufacture and use of local building materials and appropriate technologies in housing	Sensitization and Awareness	Nationwide					0.015	-	-	DRH	MMDAs, NGOs, GREDAs
		Construction of 300N¢ Rural Houses	Nationwide					0.750	-	-	DRH	MMDAs, NGOs, GREDAs
		Rehabilitation of 150N¢ Rural Houses	Nationwide					0.350	-	-	DRH	MMDAs, NGOs, GREDAs
		Establish 4N¢ model villages	Nationwide					0.060	-	-	DRH	MMDAs, NGOs, GREDAs
		Establish 30N¢ District Assembly staff housing	Nationwide					0.200	-	-	DRH	MMDAs, NGOs, GREDAs
		Establish 135N¢ Training centres	Nationwide					1.750	-	-	DRH	MMDAs, NGOs, GREDAs
		Construction skills training in District Assemblies	Nationwide					0.700	-	-	DRH	MMDAs, NGOs, GREDAs
		Establish 30N¢ Material banks	Nationwide					0.300	-	-	DRH	MMDAs, NGOs, GREDAs
		Establish Corporative Housing Schemes in ten (10) region	Nationwide					0.075	-	-	DRH	MMDAs, NGOs, GREDAs
		Complete the Rehabilitation of Official Bungalows nationwide	Nationwide					-	-	-	DRH	MMDAs, NGOs, GREDAs
TOTAL								4.240	-	-		

3.4 MANAGEMENT OF PUBLIC CONSTRUCTION

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1st	2nd	3rd	4th	GoG	IGF	Donor	Lead	Collaborating
Improve and accelerate housing delivery in the rural areas	Promote improvements in housing standards, design, financing and construction Promote self-help building schemes organized along communal themes, co-operative	Training of probationers in the architectural profession.	Nationwide					0.028	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Development control workshop for technicians	Nationwide					0.030	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Professional practice exams and induction ceremony.						0.050	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Sensitization and advocacy program on the use of local building materials	Nationwide					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Training for small and medium scale contractors	Nationwide					0.028	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Review of Architects Decree NLCD, 1969 357	Nationwide					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
	societies, and crop and trade associations	Staff Training	Nationwide					0.015	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Review of the Professional Practice Syllabus	Nationwide					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Monitoring of the KNUST and CUC schools of Architecture	Nationwide					0.015	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Publication / Gazetting of the registration of Architects and Architectural Firms	Nationwide					0.015	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Continuous Professional development (CPD) for Architects	Nationwide					0.025	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Rehabilitate, refurbish and maintain the existing office building of ARC	Nationwide					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Purchase of plant and Equipment	Nationwide					-	-	-	ARC	MWRWH, MLGRD, GIA, GhIE, PPA
		Rehabilitation of Engineers Council Office building	Nationwide					0.030	-	-	EC	MWRWH, GhIE, PPA, MMDA's
		Purchase of office facilities and supplies	Nationwide					0.100	-	-	EC	MWRWH, GhIE, PPA, MMDA's
		Training of staff of the Engineers Council	Nationwide					0.031	-	-	EC	MWRWH, GhIE, PPA, MMDA's
Increase access to adequate, safe, secure and affordable shelter	Adopt and enforce the reviewed national building codes	Ensure the incorporation of standardized building codes in the designs of building structures	Nationwide						0.130		AESL	MWRWH GNFS, EPA, TCPD, MMDAs
	Set standards for local construction materials	Specification of approved local construction materials in various designs	Nation-wide						0.025		AESL	BRR, MWRWH
	Support technical education institutions and other professional bodies to train more human resources required for planning and the construction sector	Students' attachment programmes	Nation-wide						0.018		AESL	Polytechnics, Universities, Others
		Financial support for professional bodies	Gt Accra and Ash. Regions						0.025		AESL	GhIS, GIA GhIE,
Improve and accelerate housing delivery in the rural areas	Support the use of pozzolana cement in the construction industry	Incorporation of the use of Pozzolana cement in designs	Nation-wide						0.415		AESL	ABCEC, PGL, MMDAs
		Education on the use of Pozzolana	Nation wide						0.008		AESL	POZZOLANA GHANA LTD(PGL), ABCEC, MMDAs

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Ensuring the safety of lives and properties	Ensuring stability of structures	Conducting structural integrity test on both old and new buildings	Nation-wide						0.825		AESL	Private, Quasi and Public Sector Institutions
Ascertain the status and value of land and buildings	Ensure the true value of land and buildings	Valuations of land and buildings	Nation-wide						0.260		AESL	Private, Quasi and Public Sector Institutions
Increase access to adequate, safe, secure and affordability	Improve the human and institutional capacity of AESL	Capacity building for AESL staff	Nation-wide						0.060		AESL	GhIS, GhIE, GIA, ARC
TOTAL								0.367	1.766	-		

4.0 PROGRAMME FOUR – INFRASTRUCTURE SECTOR MANAGEMENT

4.1 WORKS SECTOR MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase resilience of coastal settlement and infrastructure	<ul style="list-style-type: none"> Provide national guidance and standards for addressing multi-hazard threats Ensure resettlement of vulnerable communities 	Complete 50N ₀ Keta Sea Defence Resettlement Housing Units	Keta					3.50	-	-	Works Directorate	
		Construct H. E. the President's Emergency Drainage Projects	Nationwide					12.00	-	-	Works Directorate	
		Implement the Annual National Flood Control programme	Nationwide					6.50	-	-	Works Directorate	
		Monitored and Evaluated the Works Directorate programmes	Nationwide					0.25	-	-	Works Directorate	
TOTAL								22.25	-	-		

4.2 GENERAL MAINTENANCE MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GOG	IGF	Donor	Lead	Collaborating
Increase resilience of coastal settlement and	Ensure resettlement of vulnerable communities	Renovation of Government bungalows	Nationwide					2.000	-	-	PWD	MWRWH
		Refurbishment of PWD regional offices	Nationwide					0.500	-	-		

infrastructure															
TOTAL											2.500	-	-		

4.3 DRAINAGE MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
1.Minimize the impact of and develop adequate response strategies to disasters	Proper planning of drainage systems	Construction of Goaso drain lot I	Goaso- Brong Ahafo					1.300	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Construction of Goaso drain lot II	Goaso- Brong Ahafo					0.600	-	-		
		Construction of Goaso drain lot III	Goaso- Brong Ahafo					1.300	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Extension of Nima Drain Ph I	Nima – Greater Accra					11.000	-	-		
		Stormwater drainage improvement works at Winneba lot II	Winneba – Central Region					0.750	-	-		
		Akora River drainage project	Agona Swedru- Central Region					24.000	-	-		
		Construction of Asankragua drain lot II	Asankragua – Western Region					0.755	-	-		
		Construction of Asankragua Lot III	Asankragua – Western					0.915	-	-		
		Construction of Tamale drain lot I	Tamale – NorthernRegion					1.500	-	-		
		Construction of Tamale drain lot II	Tamale – NorthernRegion					1.500	-	-		
		Construction of Kumawu drain lot I	Kumawu – Ashanti Region					0.750	-	-		
		Construction of Kumawu drain lot II	Kumawu – Ashanti Region					0.750	-	-		
		Construction of Ejura drain lot I	Ejura – Ashanti-Region					1.400	-	-		
		Construction of Ejura drain lot II	Ejura – Ashanti-Region					1.400	-	-		
		Construction of Tepas drain lot I	Tepa – Ashanti-Region					1.400	-	-		
		Construction of Tepas drain lot II	Tepa – Ashanti-Region					23.117	-	-		
		Onyasias upstream drain	East Legon - Greater Accra					46.250	-	-		
TOTAL								118.687	-	-		

4.4 COASTAL MANAGEMENT

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget (GH¢ Million)			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Improve investment in coastal structures and technologies	Direct investment in control structures Gabions and boulder revetments to arrest erosion	Dansoman Emergency Coastal Protection Works.	Dansoman					78.025	-	-	HSD	MWRWH, MOF, MLGRD, GPHA, Ministry of Transport, Ghana Navy, NADMO, EPA,
		Construction of Anomabu Sea Defence Project	Anomabu					-	-	-		
		Construction of Ada Coastal (Phase II)	Ada					-	-	33.134		
		Construction of New Takoradi Sea Defence Project	New Takoradi - WR					-	-	-		
		Aboadze Coastal Protection Works	Aboadze – W/R					71.250	-	-		
		Atorkor - Dzita – Anyanui Sea Defence Project PH III	Atorkor, Dzita, Anyanui					30.000	-	-		
		Sakumono Sea defence Protect PH II	Sakumono – Greater Accra.					100.000	-	-		
		Ngyiresia Sea Defence Project	Ngyiresia- W/R					57.500	-	-		
		Adjoa (Near Takoradi) Coastal Protection Works	Adjoa (Near Takoradi)					19.840	-	-		
		Amanful Kumah Coastal Protection Works	Amanful Kumah					26.450	-	-		
		Nkontompo/New Takoradi Coastal Protection Works.	Nkontompo -W/R					57.500	-	-		
TOTAL								440.565	-	33.134		

4.5 OPERATIONAL HYDROLOGY

MDAs Adopted Policy objectives	MDAs Adopted Strategies	Annual Activities	Location	Quarterly Time schedule				Indicative Budget			Implementing Agencies	
				1 st	2 nd	3 rd	4 th	GoG	IGF	Donor	Lead	Collaborating
Enhance capacity to mitigate and reduce natural disasters ,risks and vulnerability	Invest in early warning and response systems	Renovation of river gauging stations , changing of automatic water level recorders	Across the nation					1.000	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
		Installation and maintenance of Telemetry systems	In the White Volta Basin					0.600	-	-	HSD	MWRWH, MOFEP, MLGRD ,TCPD, EPA, NADMO, MEST
TOTAL								1.600	-	-		

CHAPTER 6

MONITORING AND EVALUATION FRAMEWORK

6.0 Introduction

The Government of Ghana is committed to prudent management and accountability practices within the public service that will result in effective and efficient delivery of services for the benefit of all people living in Ghana. Government is further committed to linking development resources to national development policy objectives and the delivery of specified outputs and outcomes.

The Ministry of water Resources, Works and Housing is responsible for the implementation of the various programmes and sub-programmes. It has the mandate to Monitor Plan implementation progress and periodically evaluate sector performance to provide evidence-based decisions for policy formulation and review.

6.1 Structure of sector M&E Plan

The sector M&E presents a step by step process of how it was developed. The steps are:

- Assigning M&E responsibilities,
- Assessing needs and creating the necessary supporting conditions and capacities,
- Developing the M&E work plan and budget,
- Providing tools for M&E data collection and analysis,
- Stipulating what reports to generate, the reporting times and formats, and
- Suggesting how dissemination of the APR could be carried out to achieve the desired impact.

6.2 SMTDP Monitoring and Evaluation Framework

This Sector M&E Plan is to be used by the Ministry, its Departments and Agencies as well as all stakeholders in the sector to measure progress of the 2014-2017 Plan implementation. Specific indicators have been developed as essential tools to measure sector development performance during plan implementation (2014-2017).

The 2014-2017 M & E Framework of MWRWH involves the following

- *identification of primary and secondary stakeholders*
- *formation of sector M & E Team*
- *development of data collection instruments*
- *budgeting for planned M & E activities*
- *field work/data collection*

- *analysis of data using relevant statistical tools*
- *preparation of M & E Reports and dissemination*
- *establishing a function Data base to promote evidence-based decision making*

6.3 Monitoring Indicators

The indicators to be used to measure the relative changes that are occurring or have occurred during the implementation of MWRWH MTDP over time are classified into the following categories:

- *process indicators*
- *input indicators*
- *output indicators*
- *outcome indicators*
- *impact indicators*
- *base line data*

6.4 Stakeholder Analysis

Various stakeholders have been identified and assigned specific roles and responsibilities in the implementation of MWRWH 2014-2017 Medium-term development Plan. The stakeholders are in two categories. Prime stakeholders are institutions, agencies and individuals who would assist the Ministry in the direct implementation of this Plan. Secondary stakeholders are those institutions and agencies who have interest and will benefit from the achievement of the outcomes of the Plan, and will facilitate the achievement of Plan objectives and set targets.

Table 6.1 indicates the roles and responsibilities of primary and secondary stakeholders

Table 6. 1: Stakeholders Identification Analysis

Nº	STAKEHOLDERS	ROLES	INTEREST	INFLUENCE
1.	National Development Planning Commission	To ensure that sector plans are aligned with the national plan, monitor development progress	1. Equitable access to adequate, safe and affordable water and shelter. 2. Protection of life and property	High
2.	Ministry of Finance	To ensure provision of adequate and timely release of funds	To ensure efficient and effective utilization of funds	High
3.	Ministry of Gender, Children and Social Protection	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of the policy	1. Mainstreaming gender issues 2. Ensuring that issues concerning the vulnerable, physically challenged and the excluded are taken on board in the execution of the Programme.	High
4.	Ministry of Health	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of the policy	Ensuring that water related health issues are reduced to the barest minimum.	High
5.	Ministry of Employment and Labour Relations	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of the policy	Ensuring effective and efficient utilization of human resource	High
6.	Ministry of Environment, Science, Technology and Innovation	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of the policy	Ensuring that green technologies are used in Policy formulation, Programme planning and implementation to sustain the environment.	High
7.	Ministry of Lands and Natural Resources	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of the policy	Ensuring access to land for water, works and housing Programmes	High
8.	Ministry of Local Government and Rural Development	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of Policies	Ensuring the full implementation of the decentralization policy	High
9.	Ministry of Trade and Industry	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of Policies	Ensuring that locally manufactured building materials are factored in the construction of structures	High
10.	Ministry of Education	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of Policies	Ensuring the proper practices as far as water and sanitation issues are concerned through the SHEP programme	High
11.	Ministry of Roads and Highways	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of Policies	Ensuring adherence to standards in settlement planning and development	Medium
12.	Ministry of Interior	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of Policies	Ensuring protection of life, property and environment	High
13.	Ghana Statistical Service	Provision of reliable and timely information for planning and decision making	Ensuring that reliable data is made available to inform policy formulation and decision making	High
14.	Ghana Home Loans Limited	Provision of timely, soft and long term mortgages to customers	Ensuring that funds are made available to finance mortgaging	Medium

Nº	STAKEHOLDERS	ROLES	INTEREST	INFLUENCE
15.	Home Finance Company Limited	Provision of timely, soft and long term mortgages to customers	Ensuring that funds are made available to finance mortgaging	Medium
16.	Other Banking and Non-Banking Institutions	Provision of timely, soft and long term mortgages to customers	Ensuring that's funds are made available to finance mortgaging and other projects and programmes being implemented within the Sector	Medium
17.	SSNIT	Provision of timely, soft and long term construction loans	Ensuring that funds are available to support the implementation of programmes and projects within the sector	Medium
18.	UN-Habitat	Collaboration in Policy Formulation, Planning, Execution and Monitoring for Assessment and Review of Policies particularly in the area of Housing	Ensuring that adequate decent accommodation is provided for the citizenry	High
19.	Ghana Real Estate Developers Association (GREDA)	Delivery of safe, decent and low-income affordable Housing Units	Ensuring that adequate decent accommodation is provided for the citizenry	Medium
20.	Association of Building and Civil Contractors of Ghana (ABCCG)	Construction of high quality, safe, decent and low-income affordable Housing Units	1. Ensuring that adequate decent accommodation is provided for the citizenry 2. Ensuring adherence to standards in the construction of other civil works in the area of Water, Sea Defence, etc.	Medium
21.	Parliament and Members of Parliamentary Select Committee on MWRWH	To hold the executives accountable and brief constituents on the implementation of programmes and projects	To ensure transparency and accountability of the Executive	High
22.	Political Parties	To monitor and evaluate the performance of Sector	To ensure transparency and accountability	Medium
23.	Researchers and Institutions	To make input for research	Ensuring that research informs policy formulation and decision making	High
24.	Development Partners	To support Government financially, monitor and evaluate fund utilization	To ensure transparency and accountability	High
25.	Civil Society Organizations (NGOs, CSOs, TAs, People with Disabilities, etc)	To demand accountability, transparency and information dissemination to the general public and advocacy	To ensure transparency and accountability	Medium
26.	Media	To demand accountability, transparency, information dissemination, advocacy and support data collection	To ensure transparency and accountability	Medium
27.	Traditional Authorities	To support the Programme through monitoring and support data collection	To ensure transparency and accountability	Medium
28.	Faith Based Organizations	To demand accountability and support data collection	To ensure transparency and accountability	Low
29.	Local Communities	To support the Programme through monitoring and support data collection	To ensure transparency and accountability	Medium

6.5 M&E Matrix

The M&E matrix provides a format for presenting the inputs, outputs, outcomes, and impacts indicators for each SMTDP objective. It summarizes the overall monitoring and evaluation plan by including a list of methods to be used in collecting data. This matrix also shows the linkage of the SMTDP to Medium Term development Plan policy objectives.

Tables 6.2 and 6.3 show the main elements of the matrix at the National and Sector Level.

Table 6. 2: National Indicators

No Item	Indicators	Type of Indicator	Baseline 2013	Targets				Data Sources	Monitoring Frequency	Responsibility
				14	15	16	17			
1.	Percentage of Rural Population with sustainable access to safe water sources	Impact	63.38%	72%	76%	78%	80%	CWSA	Quarterly	Director Water & PPBME
2.	Total Rural Population Nationwide served with safe water	Outcome	11,737,946	13,662,813	14,777,825	15,621,022	16,497,399	CWSA	Quarterly	Director Water & PPBME
3.	Total Number of districts in the country benefiting from or enjoying safe water services	Outcome	181	181	190	190	190	CWSA	Quarterly	Director Water & PPBME
4.	Percentage of population obtaining safe drinking water within 20 minutes or less for a round trip	Impact	63.38%	72%	76%	78%	80%	CWSA	Quarterly	Director Water & PPBME
5.	Percentage of Urban Population with sustainable access to safe water sources	Impact	57.47%	65.76%	71.8%	72.9%	83.9%	GWCL	Quarterly	Director Water & PPBME
6.	Per capita share of raw water resources	Outcome	1976 m ³ /person	1942 m ³ /person	1942 m ³ /person	1920 m ³ /person	1900 m ³ /person	WRC	Quarterly	Director Water & PPBME
7.	Volume of raw water abstracted by permit holders	Output	475 million m ³ /yr	490 million m ³ /yr	490 million m ³ /yr	500 million m ³ /yr	530 million m ³ /yr	WRC	Quarterly	Director Water & PPBME
8.	Number of basin management structures established	Output	6	8	8	9	9	WRC	Quarterly	Director Water & PPBME
9.	Percentage increase of National	Impact						Housing	Quarterly	Director Housing

№ Item	Indicators	Type of Indicator	Baseline 2013	Targets				Data Sources	Monitoring Frequency	Responsibility
				14	15	16	17			
	housing stock							Directorate		& PPBME
10.	Percentage increase of Urban housing stock	Impact						Housing Directorate	Quarterly	Director Water & PPBME
11.	Percentage increase of Rural housing stock	Impact						Housing Directorate	Quarterly	Director Housing & PPBME
12.	Percentage access to service land (plots) for the development of safe shelter investment	Impact						Housing Directorate	Quarterly	Director Housing & PPBME

Table 6. 3: Sector Specific Indicators

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
1.	Number of management meetings organized	Output	24	24	24	24	Gen. Admin Directorate	Annually	Director, Gen. Admin
2.	Number of G20 meetings organized	Output	4	4	4	4	Gen. Admin Directorate	Annually	Director, Gen. Admin
3.	Number of durbars organized	Output	4	4	4	4	Gen. Admin Directorate	Annually	Director, Gen. Admin
4.	Number of welfare meetings organized	Output	4	4	4	4	Gen. Admin Directorate	Annually	Director, Gen. Admin
5.	Number of Advisory Board meetings organized	Output	4	4	4	4	Gen. Admin Directorate	Annually	Director, Gen. Admin
6.	Number of ARIC meetings organized	Output	12	12	12	12	Gen. Admin Directorate	Annually	Director, Gen. Admin
7.	Number of ETC meetings organised	Output	12	12	12	12	Gen. Admin Directorate	Annually	Director, Gen. Admin
8.	Number of MTRB meetings organised	Output	18	18	18	18	Gen. Admin Directorate	Annually	Director, Gen. Admin
9.	Procurement plan developed and reviewed	Output	December	December	December	December	Gen. Admin Directorate	Annually	Director, Gen. Admin
10.	Quarterly financial reports to be prepared by	Output	30 days after end of quarter	30 days after end of quarter	30 days after end of quarter	30 days after end of quarter	Finance Directorate	Quarterly	D/ Finance
11.	Annual financial reports to be prepared by	Output	31 st March	31 st March	31 st March	31 st March	Finance	Annually	D/ Finance

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
			the following year	the following year	the following year	the following year	Directorate		
12.	Monthly bank reconciliation prepared by	Output	15 days after end of month	15 days after end of month	15 days after end of month	15 days after end of month	Finance Directorate	Monthly	D/ Finance
13.	Responding to audit reports prepared by	Output	30 days after receipt of report	30 days after receipt of report	30 days after receipt of report	30 days after receipt of report	Finance Directorate	Annually	D/ Finance
14.	Number of staff trained in Performance Management	Output	120	35	-	45	HRMD Directorate	Annually	D/HRMD
15.	Number of staff trained in training needs assessment	Output	25	-	25	-	HRMD Directorate	Annually	D/HRMD
16.	Number of HR and Personnel Officers trained in GoG rules and regulations	Output	35	50	50	50	HRMD Directorate	Annually	D/HRMD
17.	Number of Directors participating in Management development programmes	Output	2	2	3	4	HRMD Directorate	Annually	D/HRMD
18.	Number of staff trained in Public Procurement Process (Procurement Act)	Output	-	-	35	-	HRMD Directorate	Annually	D/HRMD
19.	Number of staff trained in Public private partnerships management	Output	25	35	-	20	HRMD Directorate	Annually	D/HRMD
20.	Number of staff trained in GIMPA, CSTC, MDPI, TTI of OHCS under the Scheme of service development programmes.	Output	10	15	15	15	HRMD Directorate	Annually	D/HRMD
21.	Mid-year review of annual budget performance to be completed by	Output	July	July	July	July	PPBME Directorate	Annually	D/PPBME
22.	Annual review of the Sector Medium Term Development Plan to be completed by	Output	-	January	-	January	PPBME Directorate	Annually	D/PPBME
23.	Mid-Term review of the Sector Medium Term Development Plan to be completed by	Output	-	-	January	-	PPBME Directorate	Annually	D/PPBME
24.	Annual progress reports prepared	Output	March	March	March	March	PPBME Directorate	Annually	D/PPBME
25.	No. of Quarterly Budget Performance Reports prepared	Output	4	4	4	4	PPBME Directorate	Quarterly	D/PPBME

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
26.	Preparation of the Annual Budget Estimates for ensuing year to be completed by	Output	November	November	November	November	PPBME Directorate	Annually	D/PPBME
27.	No. biannual Sector Newsletter published	Output	1	2	2	2	RSIM Directorate	Biannually	Director, RSIM
28.	No. of Meet- Press-Series participated in	Output	1	1	1	1	RSIM Directorate	Annually	Director, RSIM
29.	No. of Research undertaken on Relevant Policies and Programmes	Output	2	2	2	2	RSIM Directorate	Annually	Director, RSIM
30.	Annual Performance Report to OHCS to be completed and submitted by	Output	January	January	January	January	RSIM Directorate	Annually	Director, RSIM
31.	No. of staff trained in the use of ICT	Output	30	35	40	45	RSIM Directorate	Annually	Director, RSIM
32.	Review of the ICT policy to be completed by	Output	-	December	-	-	RSIM Directorate	Annually	Director, RSIM
33.	No. of National/ Regional Policy Fairs participated	Output	2	2	2	2	RSIM Directorate	Annually	Director, RSIM
34.	No. of Press releases/Radio/TV discussions	Output	6	6	6	6	RSIM Directorate	Annually	Director, RSIM
35.	Annual Maintenance of Ministry's Website, LAN/ WAN	Output	December	December	December	December	RSIM Directorate	Annually	Director, RSIM
36.	Beneficiary/Clients Service Surveys conducted	Output	December	December	December	December	RSIM Directorate	Annually	Director, RSIM
37.	Information Materials and facilities in Ministerial Library/Resource Centre upgraded	Output	December	December	December	December	RSIM Directorate	Annually	Director, RSIM
38.	Conventions, Protocol Agreements, Statutory Acts, ,MOU's and Contracts collated, compiled and upgraded	Output	December	December	December	December	RSIM Directorate	Annually	Director, RSIM
39.	Client Service Unit set-up	Output	-	December	-	-	RSIM Directorate	Annually	Director, RSIM
40.	No. of audit reports produced	Output	4	4	4	4	Internal Audit Unit	Annually	Head, Internal Audit Unit
41.	No. officers trained on Report writing and information gathering skills	Output	-	2	-	2	HRMD Directorate	Annually	Director, HRMD
42.	No. Verification and inspection of projects to be completed by	Output	3	3	3	3	Internal Audit Unit	Annually	Head, Internal Audit Unit
43.	No. of officers to attend International	Output	-	2	-	2	Internal Audit	Annually	Head, Internal

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
	Conference						Unit		Audit Unit
44.	No. of officers trained in project auditing	Output	2	2	-	-	Internal Audit Unit	Annually	Head, Internal Audit Unit
45.	No. of officers trained in Risk/system based auditing	Output	-	-	2	2	Internal Audit Unit	Annually	Head, Internal Audit Unit
46.	Follow-up on previous audit by IAU and GAS to be completed by	Output	August	August	August	August	Internal Audit Unit	Annually	Head, Internal Audit Unit
47.	Preparation Ensuing year budget and audit plans to be completed by	Output	November	November	November	November	Internal Audit Unit	Annually	Head, Internal Audit Unit
48.	Development of a Risk register for the Ministry to be completed by	Output	-	December	-	-	Internal Audit Unit	Annually	Head, Internal Audit Unit
49.	Preparation of a strategic plan for the Unit to be completed by	Output	-	-	-	December	Internal Audit Unit	Annually	Head, Internal Audit Unit
8.	The development of a national water safety plan to be completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
9.	No. of Capacity Building programmes implemented for the Water Directorate	Output	4	4	4	4	Water Directorate	Annually	Director, Water
10.	Review of the National Water Policy completed by	Output	-	December	-	-	Water Directorate	Annually	Director, Water
11.	Review of the Water Sector Strategic Development Plan (WSSDP) completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
12.	A comprehensive M&E Framework for the WASH Sector developed by	Output	-	-	December	-	Water Directorate	Annually	Director, Water
13.	Establishment of an MIS Unit within the Water Directorate to be completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
14.	Establishment of Inter-Ministerial Steering Committee (IMSC) for water completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
15.	No. of sector working group meetings Organized	Output	12	12	12	12	Water Directorate	Monthly	Director, Water
16.	Coordination for the development of strategic policy framework for rainwater harvesting to be completed by	Output	-	-	December	-	Water Directorate	Annually	Director, Water
17.	Setting up of a national M&E coordination group for the sector with clear terms of reference to be completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
18.	Setting up and resourcing of M&E units at GWCL, WRC and CWSA to provide regular update on agreed sector indicators to be completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
19.	Organisation of the Annual Ghana Water Forum to be completed by	Output	October	October	October	October	Water Directorate	Annually	Director, Water
20.	Organization of the Annual Inter School Quiz competition to be completed by	Output	October	October	October	October	Water Directorate	Annually	Director, Water
21.	Rolling out of the DIMES software in all MMDAs to be completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
22.	Implementation of the framework on private sector participation in the water sector including financing (BOO, BOT etc.) completed by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
23.	Appraisal and adoption of financing mechanism for capital maintenance developed by	Output	-	-	December	-	Water Directorate	Annually	Director, Water
24.	Support for research on sector issues provided by	Output	-	-	-	December	Water Directorate	Annually	Director, Water
25.	No. of WASH conferences and Fora attended around the World	Output	-	10	12	15	Water Directorate	Annually	Director, Water
26.	No. of Staff Trained from the Water Directorate	Output	-	3	3	3	Water Directorate	Annually	Director, Water
27.	No. of new Water Registration permits & licenses issued annually	Output	95	85	70	60	WRC	Quarterly	WRC Exec. Sec.
28.	No. of Water use & Drilling permit & license holders monitored annually	Output	65	60	55	50	WRC	Quarterly	WRC Exec. Sec.
29.	No. of Water quality stations assessed	Output	40	40	40	40	WRC	Quarterly	WRC Exec. Sec.
30.	No. of monitoring Boreholes assessed	Output	34	34	34	34	WRC	Quarterly	WRC Exec. Sec.
31.	Hectares of River banks protected (Buffer zone)	Output	9	8	7	6	WRC	Quarterly	WRC Exec. Sec.
32.	No. of New Basin Offices established	Output	1	1	1	1	WRC	Annually	WRC Exec. Sec.
33.	Million Gallons/Year of water produced	Output	66,017	88,962	93,034	111,329	GWCL	Annually	GWCL M. D.

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
34.	Million Gallons/Year of water sold	Output	36,310	50,175	53,960	66,797	GWCL	Annually	GWCL M. D.
35.	Percentage of Billing & Collection of Receivables Collected	Output	100	100	100	100	GWCL	Annually	GWCL M. D.
36.	Number of boreholes successful drilled with hand pumps installed annually	Output	1,500	1,500	1,500	1,500	CWSA	Annually	CWSA, Chief Executive
37.	Number of hand-dug wells successful drilled with hand pumps installed annually	Output	5	5	5	5	CWSA	Annually	CWSA, Chief Executive
38.	Number of piped systems completed annually	Output	120	120	120	120	CWSA	Annually	CWSA, Chief Executive
39.	Number of institutional latrines completed annually	Output	160	180	200	220	CWSA	Annually	CWSA, Chief Executive
40.	Number of Multi Village pipe systems completed annually	Output	1	1	1	1	CWSA	Annually	CWSA, Chief Executive
41.	Number of GWCL piped connections completed annually	Output	5	0	0	0	CWSA	Annually	CWSA, Chief Executive
42.	Number of piped systems rehabilitated / replaced annually	Output	10	10	10	10	CWSA	Annually	CWSA, Chief Executive
43.	Number of boreholes Rehabilitated annually	Output	40	40	40	40	CWSA	Annually	CWSA, Chief Executive
44.	Sensitization/Awareness Programmes on the Housing Policy to be completed by	Output	December	December	December	December	Housing Directorate	Annually	D/Housing
45.	Implementation of the redevelopment programme to increase the housing stock for public workers to be completed by	Output	December	December	December	December	Housing Directorate	Annually	D/Housing
46.	№ of affordable housing units completed at Borteyman by SSNIT	Output	-	708	708		Housing Directorate	Annually	D/Housing
47.	№ of affordable housing units completed at Kpone	Output	-	509	509	508	Housing Directorate	Annually	D/Housing
48.	№ of affordable housing units completed at Koforidua, Tamale and Wa	Output	-	331	331		Housing Directorate	Annually	D/Housing
49.	№ of Housing Units constructed by M/s Constructora OAS	Output	1,000	1,000	1,000	1,000	Housing Directorate	Annually	D/Housing
50.	№ of Housing Units constructed by M/s Ital Construct	Output	824	824	824	824	Housing Directorate	Annually	D/Housing
51.	Construction of housing units for Public Servants to be completed by	Output	December	December	December	December	Housing Directorate	Annually	D/Housing

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
52.	№ of housing units constructed for security services under the Security Services Housing Programme Phase II	Output	136	123	123	122	Housing Directorate	Annually	D/Housing
53.	Acres of land banks identified and procured	Output	1,200	25,000	25,000	25,000	Housing Directorate	Annually	D/Housing
54.	Review of building regulations (LI 1630) to be completed by	Output	-	December	-	-	Housing Directorate	Annually	D/Housing
55.	Sensitization/ Awareness of Reviewed Building Code and regulations to be completed by	Output	-	-	December	December	Housing Directorate	Annually	D/Housing
56.	Support for the Implementation of the Slum Upgrading and Prevention Strategy to be completed by	Output	December	December	December	December	Housing Directorate	Annually	D/Housing
57.	Payment of subscription to International Organisations (UN-HABITAT, AMCHUD) to be completed by	Output	December	December	December	December	Housing Directorate	Annually	D/Housing
58.	Number of Rent Cases received from landlords and tenants annually	Output	44,456	53,347	62,238	71,129	RCD	Annually	Chief Rent Officer
59.	Number of Rent disputes Settled annually	Output	27,200	44,000	52,500	61,050	RCD	Annually	Chief Rent Officer
60.	Number of cases referred to Court	output	8,900	9,347	9,738	10,079	RCD	Annually	Chief Rent Officer
61.	Number of Affordable Houses provided for Public and Civil Servants Annually	Output	100	150	200	250	PSHLSB	Annually	Executive Secretary, PSHLSB
62.	Number of Rural houses completed annually	Output	100	100	100	100	DRH	Annually	Director, DRH
63.	Number of Rural houses rehabilitated annually	Output	50	50	50	50	DRH	Annually	Director, DRH
64.	Number of local building material training centres established	Output	45	45	45	45	DRH	Annually	Director, DRH
65.	Number of Probationers trained in the Architectural professional practice	Output	60	65	70	75	ARC	Annually	Registrar, ARC
66.	Number of building technicians trained in National Building Regulations and Planning Laws	Output	25	30	35	40	ARC	Annually	Registrar, ARC
67.	Number of Building Technicians and Draughtsmen licensed	Output	40	45	50	100	ARC	Annually	Registrar, ARC
68.	Number of Small and Medium Scale	Output	-	20	25	30	ARC	Annually	Registrar,

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
	Contractors trained							ARC	
69.	Number of advocacy programs on the use of local building materials organized	output	3	3	3	4	ARC	Annually	Registrar, ARC
70.	Number of professional practice examination and induction ceremony organized		2	2	2	2	ARC	Annually	Registrar, ARC
71.	Number of Engineers trained in the Engineering Professional Practice	Output	75	85	100	130	EC	Annually	Registrar, EC
72.	Number of Engineers', HND Technicians and Draughtsmen licensed	Output	300	500	1000	1500	EC	Annually	Registrar, EC
73.	National Maintenance Policy developed	Output	-	December	-	-	Works Directorate	Annually	D/Works
74.	Action plan for the implementation of the Policy developed	Output	-	-	December	-	Works Directorate	Annually	D/Works
75.	Regional and district drainage master plan developed.	Output	-	December	-	-	Works Directorate	Annually	D/Works
76.	Infrastructure (GoG landed properties, Drainage system and coastal) fund Policy developed.	Output	-	-	December	-	Works Directorate	Annually	D/Works
77.	Number of Keta Sea Defence resettlement houses constructed	Output	50	50	50	50	Works Directorate	Annually	D/Works
78.	H. E. the President's Emergency Drainage Projects constructed.	Output	December	December	December	December	Works Directorate	Annually	D/Works
79.	Annual National Flood Control programme implemented.	Output	December	December	December	December	Works Directorate	Annually	D/Works
80.	The Existing Ministerial Block of Offices rehabilitated.	Output	December	December	December	-	Works Directorate	Annually	D/Works
81.	Extension of the new Ministerial Block of Offices completed.	Output	December	December	-	-	Works Directorate	Annually	D/Works
82.	UNDP Blocks of Flats rehabilitated, refurbished and maintained	Output	December	December	-	-	Works Directorate	Annually	D/Works
83.	Korle Lagoon Ecological Restoration Project completed	Output	-	-	December	-	Works Directorate	Annually	D/Works
84.	Works Directorate programmes monitored and Evaluated.	Output	Quarterly	Quarterly	Quarterly	Quarterly	Works Directorate	Quarterly	D/Works
85.	Number GoG bungalows renovated	Output	15	50	50	50	PWD	Annually	PWD, Engineer -In-

№	Indicators	Type of Indicator	Targets				Data Sources	Monitoring Frequency	Responsibility
			2014	2015	2016	2017			
								Chief	
86.	Number PWD regional offices refurbished	Output	-	10	10	10	PWD	Annually	PWD, Engineer -In- Chief
87.	Number of treatment plants maintained	Output	10	10	10	10	HSD	Quarterly	Director, HSD
88.	Kilometers of drains constructed	Output	15	20	30	35	HSD	Quarterly	Director, HSD
89.	Kilometers of drains rechanneled, upgraded and maintained	Output	60	65	70	75	HSD	Quarterly	Director, HSD
90.	Number of communities provided with the erosion control structures	Output	50	60	100	100	HSD	Quarterly	Director, HSD
91.	Kilometers of coastline protected	Output	10	10	10	10	HSD	Quarterly	Director, HSD
92.	Kilometers of Groyne and Revetment structures maintained	Output	3	5	5	5	HSD	Quarterly	Director, HSD
93.	Number of flood forecasting and warning systems established	Output	1	1	1	1	HSD	Quarterly	Director, HSD
94.	Number of flow measurements taken	Output	224	252	252	252	HSD	Quarterly	Director, HSD

6.6 M&E Calendar (Work Plan)

It is important to point out that, one other vital component of the Ministry's M&E Plan is the Annual M&E Calendar or Work Plan. It was developed through a participatory process featuring the actors, frequency of activity, the time frame and a budget relating to each activity. Table 6.5 shows a simplified M&E Calendar.

M&E Calendar

Activities	Time Frame				Actors	Budget in GH¢
	2014	2015	2016	2017		
STMDP						
Mid-Term Evaluation	First Week of July each Year				PPBME	40,000.00
Terminal Evaluation	First Week of January of ensuing Year				PPBME	60,000.00
Other Evaluations and Studies	Second Week of Sept bi-annually				PPBME	100,000.00
Participatory M&E	Second Week of March bi-annually				PPBME	85,000.00
Sub-Total						285,000.00
Data Collection and Review Meetings						
Quarterly Field Visits	3 rd Wednesday in March, June, Sept and Dec each Year				PPBME	20,000.00
Quarterly Review Meetings	4 th Thursday in March, June, Sept and Dec each Year				PPBME	20,000.00
Preparation of Quarterly Reports	15 th of April, July and October each Year and January of ensuing Year				PPBME	3,000.00
Sub-Total						43,000.00
APR Preparation and dissemination						
Data Collection from Directorates, Dept.'s and Agencies	From 15 th January each Year				PPBME	-
Draft APR Prepared	15 th February each Year				PPBME	5,000.00
Draft APR Review Workshop	15 th March each Year				PPBME	45,000.00
Final APR submitted to NDPC	31 st March each Year				PPBME	-
Dissemination of Sector APR	15 th April each Year				PPBME	5,000.00
Sub-Total						55,000.00
Grand-Total						383,000.00

CHAPTER 7

COMMUNICATION PLAN

7.0 Introduction

This section of MWRWH2014-2017 SMTDP establishes the relationship that exists between the stakeholders the Ministry. It also spells out the expected roles, means of awareness creation and dissemination of the Plan and its outcomes to all stakeholders.

The Communication Strategy of this Plan is meant to show how MWRWH will showcase its performances over the Plan period (2014 – 2017).

7.1 Objective

The objectives of the communication strategy are:

- (i) To sensitize the Ghanaian public on all components of the Plan.
- (ii) To create a platform for the various sub-sectors to publicize their activities.
- (iii) To build organic partnership with stakeholders to enhance Plan implementation and M&E work
- (iv) To involve stakeholders in the review of Plan performance.
- (v) To engage stakeholders in development dialogue with specific reference to the provision of services in the Water, Works and Housing sub-sectors of the economy.

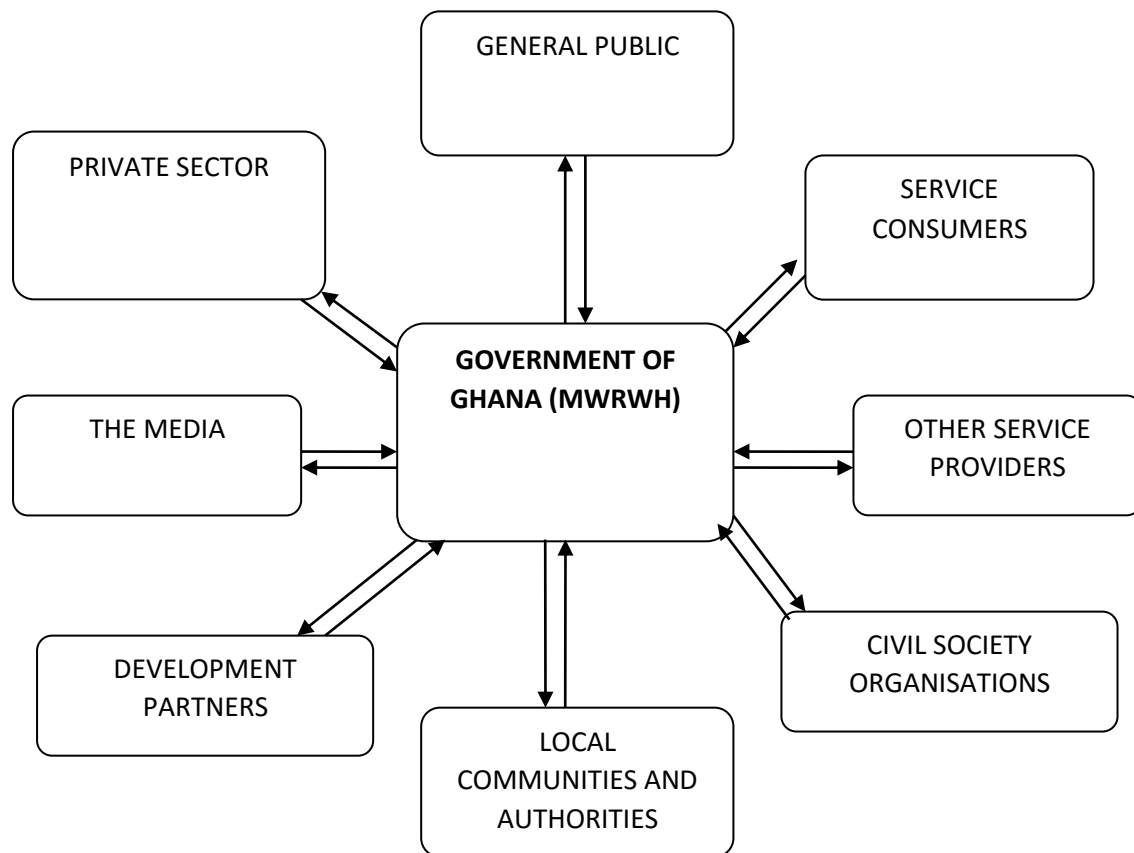
7.2 Sector Benefits

The Communication strategy of this Plan will enable the Ministry achieve the following:

- Demonstrate accountability
- Show development Results
- Win public confidence
- Form organic partnership with stakeholders to enhance implementation of development interventions, and
- Enhance sector service delivery over the Plan period.

Fig. 1 shows the various stakeholders within MWRWH

Fig 1: MWRWH STAKEHOLDERS



7.3 PREFERRED / APPROPRIATE COMMUNICATION CHANNELS

Interpersonal communication:

This involves direct contact by mouth, letters, memoranda, telephone conversations, telefax messages, conference calls, Protocol, newsletters, large conferences, networking and press releases.

Media:

The media is one of the most effective ways of disseminating development information. It takes the form of print and electronic communication. It also include Notice Board, Handouts, Newsletters, Brochures, Float File, Information racks, Audio visuals like slides, video clips and documentaries, Seminars, symposia and spot-lights as vital tools.

Communication Tools And Strategies

The communication strategy to be adopted by MWRWH includes the following:

- ✓ Prepare and use multi-media approach, including outreach activities
- ✓ Publicity
- ✓ . Advocacy

7.5 Communication Activities / Strategies

- Launch activity
- Use print and electronic media
- Use brochures and posters
- Use outreach activities like drama, durbars, workshops and seminars
- Use advocacy and lobbying approaches
- Counseling based on understanding of human behaviour and of clients.
- Analysing future trends in the education arena and predicting their consequences.
- Researching into public opinion, attitudes and expectations and advising on necessary action.
- Establishing and maintaining two-way communication based on truth and full information.
- Preventing conflicts and misunderstanding.
- Harmonizing mutual Respect and Social responsibility.
- Projecting corporate identity and image.
- Promotion of products or service.
- Promoting goodwill with internal and external publics.

7.6 Co-Ordination:

The major components of the co-ordination are:

- Identifying experts for contents of communication materials;
- Developing and producing all communication materials;
- Identifying resource persons to facilitate educational campaigns at all levels;
- Organizing workshops, meetings and seminars.
- Media planning and buying.