



## Water Resources

# Water Resources Management and Planning Services

Water Resources Management is one of the core business of WEMA. Since its establishment, WEMA has completed many projects related to Water Resources. WEMA's experience in water resources is diverse and it covers all aspect of water project including planning, studies, supervision ,monitoring and evaluation.

Generally, WEMA's experience in water projects can be grouped into four categories as briefly described in the following sub sections:

### Studies

- River basin management
- Hydrological and hydraulic modeling
- Land, crop, and water management
- Catchment Management
- Water Quality assessment
- Stormwater management
- Water resource assessment
- Flood studies, drainage and flood forecasting
- Water supply and sanitation
- Ground water, aquifer recharge and salinity issues
- Irrigation planning
- Agricultural field Erosion protection and land reclamation
- River training
- Beach erosion protection and coastal engineering
- Economic evaluation and risk assessment
- Public consultation

### Design

- Design of Irrigation systems
- Design of Bridge hydrology
- Design of urban and rural drainage networks
- Flood control structures and other mitigation works
- Design of sediment traps
- Design of dam, culverts & weirs
- Design of pipelines and pumps
- Design of erosion control works, land reclamation and river training
- Design of rain water harvesting structures for aquifer recharge
- Design of artificial wetland and other water flow regulators.

### Construction and Management

- Site Supervision
- Project Management
- Contracts, tenders and claims management

### Institutional and Training

- Development of strategies, legislation and policies
- Management and technical training
- Evaluation and training on value for money
- Water right and pricing
- Stakeholder consultation
- Project audit
- Gender and health issues
- Technical assistance





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Ground water study, Dar es Salaam, Morogoro & Dodoma



Studying the Mgeta River basin, Morogoro



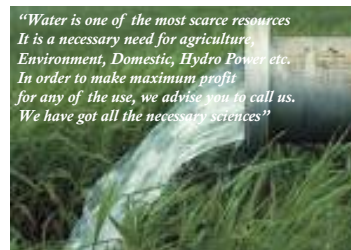
Irrigation in the Usangu basin  
Southern Highland, Tanzania



Studying the Songwe River basin,  
Malawi & Tanzania



Dam Design in the Mara basin  
Lake zone Tanzania



*"Water is one of the most scarce resources  
It is a necessary need for agriculture,  
Environment, Domestic, Hydro Power etc.  
In order to make maximum profit  
for any of the use, we advise you to call us.  
We have got all the necessary sciences"*