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Water Resources Authority

The Water Resources Authority (WRA) seeks qualified applicants for the following consultancy: **Demand Inventory and Projections**. The objective of this consultancy is to provide technical assistance to the WRA to update the Demand Inventory of the Water Resources Development Master Plan for Jamaica (WRDMP).

Required Activities

- 1.1 Recalculation of sectoral water demands for:
 - i. Irrigated agricultural demands
 - ii. Municipal demand
 - iii. Industrial demand
 - iv. Tourism demand
 - v. Environmental demand

This will be done for 2016 based on the latest demographic data from STATIN, land use change data and data on growth/decline in sectors. Water demand projections up to 2080 would be based on land-use changes (including changes in irrigable areas), and climate change data projections for temperatures and evaporation from the UWI Climate Change Group.

- 1.2 Review, edit and redraft all chapters on water demand in the WRDMP Draft Report
- 1.3 Assist the WRA with conducting the WRDMP Launch.

Type of Consultancy: Individual, with support from the WRA to update the WRDMP. The consultant will report to the Managing Director of the WRA, who will assign the counterpart WRA team with whom the consultant will work.

Start-up date, length and duration: This will be a **60-day** consultancy (discontinuous days) starting **September 2016** and ending **December 2016**.

Place of work: Jamaica

Qualifications: Master's degree, including advanced mathematical courses, and at least ten years of professional experience including experience with sectoral water demand assessment; knowledgeable about Jamaica's hydrology.

Application letters and CVs should be sent to demandinventory@wra.gov.jm by **August 31, 2016**. Only shortlisted applicants will be contacted.



Water Resources Authority

The Water Resources Authority (WRA) seeks qualified applicants for the following consultancy: **Resource Inventory, Database Development and Final Report**. The objective of this consultancy is to provide technical assistance to the WRA to update the Water Resources Development Master Plan for Jamaica (WRDMP).

Required Activities:

- 1.1 Update the water resources inventory for the years 2016, 2020, 2025, 2030, 2050 and 2080 by:
 - i. Reclassification of all abstraction data as surface water, groundwater and harvested rainwater
 - ii. Assessment of the harvested rainfall amounts for each of the 26 WMUs (or sub-WMUs) as at 2016
 - iii. Reassessment of rainfall input to water balance, based on projections of increase or decrease in the annual rainfall per WMU made by the UWI - Climate Change Group (UWI-CCG).
 - iv. Reassessment of projected evapo-transpiration input to water balance based on predicted temperature increase by the UWI-CCG.
 - v. Recalculation of available/exploitable water resource type (2016, 2020, 2025, 2030, 2050 and 2080)
- 1.2 Review, edit and redraft all chapters of WRDMP Draft Report (except Water Demand Chapters)
- 1.3 Development and population of online database with all WRDMP related data
- 1.4 Assist the WRA with conducting the WRDMP Launch

Type of Consultancy: Individual, with support from the WRA to update the WRDMP. The consultant will report to the Managing Director of the WRA who will assign the counterpart WRA team with whom the consultant will work.

Start-up date, length and duration: This will be a **160-day** consultancy (discontinuous days) starting **September 2016** and ending **April 2017**.

Place of work: Jamaica

Qualifications: Hydrologist, with a Master's degree and at least ten years of professional experience; knowledgeable about Jamaica's hydrology.

Application letters and CVs should be sent to resourceinventory@wra.gov.jm by **August 31, 2016**. Only shortlisted applicants will be contacted.