



Central Water Authority
St Paul, Phoenix
+230 601 5000

C2022/122 - NOTICE OF EXPRESSION OF INTEREST FOR PROVISION OF CONSULTANCY SERVICES FOR THE FEASIBILITY STUDY AND DETAILED DESIGN INCLUDING A WATER BALANCE STUDY, SURVEY, DESIGN, PREPARATION OF BID DOCUMENTS AND ASSISTANCE IN BID EVALUATION FOR THE DOWNSTREAM WORKS OF RIVIERE DES ANGUILLES WATER TREATMENT PLANT

Procurement Reference Number:

1. The Government of Mauritius represented by the Central Water Authority has secured funds from Arab Bank for Economic Development in Africa (BADEA). The Authority has allocated the funds to be used for the acquisition of Consultancy services for the feasibility study and detailed design including a water balance study, survey, design, preparation of bid document and assistance in bid evaluation for the downstream works of Riviere des Anguilles Water Treatment Plant.
2. The Entity now invites eligible consultants to submit expressions of interest for consultancy described above.

3. Project Description

With the planned construction of the Rivière des Anguilles Dam in the southern region of the Republic of Mauritius, to be undertaken by the Water Resources Commission (WRC), a strategic enhancement in the management and utilization of the country's water resources is anticipated. This major infrastructure initiative is designed to optimize the use of existing water reserves while also facilitating the sustainable harnessing of additional resources from water courses.

Through an integrated and forward-looking approach, the project aims to effectively address both current and projected water demands across multiple sectors, including potable water supply and agricultural irrigation. By strengthening storage capacity and improving distribution efficiency, the dam is expected to support long-term water security objectives for various planning horizons extending up to the year 2050. Furthermore, it will contribute to the realization of a continuous, reliable 24-hour water supply service, thereby enhancing resilience, supporting socio-economic development, and improving overall quality of life.

This consultancy assignment will encompass the comprehensive undertaking of a feasibility study, detailed engineering design, and the preparation of tender and bid documentation for the proposed pipeline infrastructure. The scope of works includes the conveyance of treated water from the Rivière des Anguilles Water Treatment Plant to designated service reservoirs, as well as the development of associated service mains to facilitate the efficient distribution of potable water. The project is specifically aimed at strengthening and expanding the water supply network across the southern and south-western regions of the Republic of Mauritius, ensuring improved reliability, capacity, and service coverage. By adopting a systematic and technically robust approach, the consultancy will support the implementation of an integrated water distribution system capable of meeting current demands while accommodating future growth and development needs.

4. The objectives of the Consultant should be as follows:
 - Ensure a reliable potable water supply to the southern and south-western regions of the Republic of Mauritius.
 - Meet present and future water demand up to the year 2050.
 - Develop and upgrade the downstream water distribution infrastructure.
 - Design new trunk mains and distribution pipelines to convey treated water.
 - Design new service reservoirs/rehabilitate existing reservoirs.
 - Design for renewal and upgrading of existing pipelines within the network.
 - Optimize the distribution of treated water from the Rivière des Anguilles Water Treatment Plant.
 - Integrate the new water supply system with the existing distribution network.
 - Undertake feasibility studies, detailed design, and preparation of bid documents to facilitate project implementation.
5. Consultants may associate with other firms in the form of a joint venture to enhance their qualifications. The form of association, where applicable, should be indicated in the Expression of Interest. This procurement is restricted **only to Arab, African or Arab-African firms** according to the
6. procedures of BADEA and in coordination with the Government of Mauritius. The Expressions of Interest will be evaluated in accordance with Section 1 – Part 5 of the Expression of
7. Interest (EOI) and against the criteria outlined in the attached forms and response to requirements stated therein. The Central Water Authority will only reply to those Expressions of Interest short-listed for invitation to tender from restricted firms from Arab, African or Arab-African firms. Applicants will be expected to demonstrate in their Expression of Interest that they meet the requirements given.
8. Submission procedure:
 - (i) Interested suppliers must submit their EOI:
 - (a) The General Manager
Central Water Authority
Head Office, St Paul Phoenix
Mauritius
Email: procurement@cwa.mu
 - (b) Closing Date: by latest (Local Time)
 - (ii) The Expression of Interest should be clearly marked “Expression of Interest for consultancy services for the feasibility study and detailed design including a water balance study, survey, design, preparation of bid documents and assistance in bid evaluation for the downstream works of Riviere des Anguilles Water Treatment Plant”
9. Clarifications:

Interested parties may request clarifications via email **no later than ten (10) days** before the closing date.
10. Important Note
 - (i) Both the Technical proposal and the Financial proposal will be required and evaluated at the Request for Proposals (RFP) stage.
 - (ii) No financial proposal shall be included at this stage.
 - (iii) Only shortlisted firms from Arab, African or Arab-African firms will be invited to participate in the subsequent procurement process.
 - (iv) Bidders shall declare any conflict of interest that may affect their participation.

11. The planned Procurement schedule (Subject to changes) is as follows:

Activity	Date
a. Publication of Notice of Expression of Interest	15 May 2026
b. Closing date for receipt of Expression of Interest	15 June 2026
c. Opening date of Expression of Interest	17 June 2026
d. Evaluation of Expressions of Interest	10 July 2026
e. Display and communication of shortlist	17 July 2026

12. DISCLAIMER

The CWA reserves the right to accept or reject any interest and is not bound to invite any applicant to bid without incurring any liability.



Procurement Policy Office

Ref: SC/.....

STANDARD FORMS for

Expressions of Interest *(Consultancy Services)*

(for use in the e-Procurement System)

*Procurement Policy Office
Ministry of Finance Economic Planning and Development
Port Louis
November 2020*

Foreword

This Standard Form for Request for Expressions of Interest to shortlist consultants has been prepared pursuant to section 7(c) of the Public Procurement Act 2006.

Those wishing to submit comments or suggestions on this document or to obtain additional information on procurement in Mauritius may contact:

***The Director
Procurement Policy Office
Ministry of Finance, Economic Planning and Development
Level 8, Emmanuel Anquetil Building, Port Louis, Mauritius
Tel: No. (+230)201-3760 & Fax: No. (+230)201-3758
Email: pposecretariat@govmu.org***

[insert name of Client (Public Body)]

Expressions of Interest
for
Consultancy Services

*CWA/C2022/122 - Consultancy Services for
the Feasibility Study and Detailed Designs
including a Water Balance Study, Survey,
Design, Preparation of Bid Documents and
Assistance in Bid Evaluation for the
Downstream Works of Rivière des
Anguilles Water Treatment Plant*

Issued on: MAY 2026
Procurement Reference No: [insert number]

*Project: Consultancy Services for the Feasibility
Study and Detailed Designs including a Water
Balance Study, Survey, Design, Preparation of Bid
Documents and Assistance in Bid Evaluation for the
Downstream Works of Rivière des Anguilles Water
Treatment Plant*

Client : Central Water Authority

Online Tendering

The Installation, Commissioning and Operational Acceptance of the e-Procurement System of the Republic of Mauritius has been achieved since 31 July 2017.

The e-Procurement System allows for invitation for bids, downloading of bidding documents, request for clarification from suppliers, response to clarification and issue of addendum, submission of bids, closing of bids, bid opening, evaluation of bids and award of contract to be done online.

The process for Challenge and Review shall continue to be offline for some time.

Suppliers are hereby advised that it is a mandatory condition to have a digital certificate issued by a Certifying Authority licensed by the Republic of Mauritius to respond to any Invitation for Bid on the e-Procurement System. Further information may be obtained from the Supplier's User Guide attached to this bidding document.

Section 1

***Project: CWA/C2022/122 - Request for Expressions of Interest
for Consultancy Services for the Feasibility Study and Detailed
Designs including a Water Balance Study, Survey, Design,
Preparation of Bid Documents and Assistance in Bid Evaluation
for the Downstream Works of Rivière des Anguilles Water
Treatment Plant***

[Authorized under Section 24 (2) (a) of the Public Procurement Act 2006]

1. Introduction

The purpose of this Expressions of Interest is to request for proposals from international qualified consultants limited to Arab, African or Arab/African consulting firms as single entity or in joint venture with other consultants, and with or without sub-consultants limited also to Arab, African or Arab/African countries, for the feasibility study, and Detailed Designs including a Water Balance Study, Survey, Design, Preparation of Bid Documents and assistance during the bid evaluation for downstream works of Riviere des Anguilles water treatment plant.

Consultant shall for the purpose of this procurement mean **consulting firm/individual consultant/Joint Venture**. Consultant applying for shortlisting as consortium, association or any form of arrangement shall clearly indicate its status as a single entity or Joint Venture and its sub-consultancy as required in the submission. Consultants may associate with other firms in the form of a joint venture to enhance their qualifications. The form of association, where applicable, should be indicated in the Section 3 – Response Forms.

2. The objectives of the assignment

2.1 The objectives of the Consultant should be as follows:

- Ensure a reliable potable water supply to the southern and south-western regions of Mauritius.
- Meet present and future water demand up to the year 2050.
- Develop and upgrade the downstream water distribution infrastructure.
- Design new trunk mains and distribution pipelines to convey treated water.
- Design new service reservoirs/rehabilitate existing reservoirs.
- Design for renewal and upgrading of existing pipelines within the network.
- Optimize the distribution of treated water from the Rivière des Anguilles Water Treatment Plant.
- Integrate the new water supply system with the existing distribution network.
- Undertake feasibility studies, detailed design, and preparation of bid documents to facilitate project implementation.

3. *The scope of the assignment*

The Consultant shall undertake, among others, the following main tasks:

- Preparation of Inception Report
- Carrying out a Feasibility Study
- Preparation of Feasibility Report
- Conducting topographical surveys
- Conducting geotechnical investigations and preparation of geotechnical report
- Carrying out a water balance study
- Study and analysis of the existing water distribution network
- Hydraulic modelling and simulation of trunk and distribution mains
- Detailed design of pipelines, reservoirs and associated works
- Preparation of design calculations and engineering drawings
- Preparation of Bill of Quantities (BOQ) and cost estimates
- Preparation and submission of Detailed Design Report
- Preparation of E-Bid Documents in accordance with procurement requirements (FIDIC Red Book)
- Assistance during the bidding process (clarifications, addenda, pre-bid meetings)
- Bid evaluation support and preparation of Bid Evaluation Report
- Assistance to the Client during pre-award and post-award negotiations
- Preparation and submission of monthly progress reports
- Coordination with stakeholders and authorities for surveys, wayleaves and land acquisition.

4. *Fund for assignment*

The project will be funded by BADEA.

Client's requirements

5.

5.1. General Experience of the Consultant/Firm:

- The Joint Venture/Consortium/Association, shall have a minimum general experience of ten (10) years.
- The Consultant/firm must demonstrate adequate general experience in engineering consultancy services, particularly in civil and water infrastructure projects.
- The Consultant/firm must show proven capability in design review, supervision, and contract management of construction works, particularly in projects involving water supply infrastructure.
- The Consultant/firm shall be financially sound. Same will be assessed based on key financial information provided for the last five years.

5.2 Specific experience of the Consultant/Firm:

- The Consultant/firm should have experience in the design of at least 5 km of potable water pipeline with Ductile Iron pipe of diameter ≥ 150 mm or HDPE pipe of diameter ≥ 160 mm during the last 15 years (length may be cumulative in several projects).
- The Consultant/firm should have experience in the design of at least one (1) Reinforced Concrete reservoir of a minimum capacity of 1,000 m³ over the last 15 years

- The Consultant/firm should demonstrate its technical and organizational capacity to undertake the works

5.3 Specific Experience Required (Key Personnel)

The Consultant must demonstrate specific experience in water treatment plant projects through its proposed key personnel as follows:

- Project Director / Manager
 - Degree in Civil Engineering and registered with a relevant professional body.
 - Minimum 15 years of general experience in engineering.
 - Experience as Project Director/Manager in potable water pipeline projects of at least 5 km with DI \geq 150 mm or HDPE \geq 160 mm.
- Structural Engineer
 - Degree in Civil/Structural Engineering and registered with a professional body.
 - Minimum 8 years of experience in civil engineering works.
 - Experience in design or design review of at least one reinforced concrete water-retaining structure of \geq 1000 m³ during the last 15 years
- Civil Engineer
 - Degree in Civil Engineering and registered with a professional body.
 - Minimum 8 years of experience in civil engineering works.
 - Experience in design of potable water pipelines of at least 5 km (DI \geq 150 mm or HDPE \geq 160 mm).
- Mechanical / Electrical/Mechatronics Engineer
 - Degree in Mechanical, Electrical or Mechatronics Engineering.
 - Minimum 8 years of experience in Mechanical/Electrical or Mechatronics Engineering works.
 - Experience in design or design review of at least two pumping station projects in the last 10 years.
- Geotechnical Expert
 - Master's degree in Geotechnical Engineering or equivalent.
 - Minimum 8 years of experience in the field of Civil Engineering
 - Experience in at least two civil projects involving geotechnical investigations during the last 10 years.
- Quantity Surveyor/Cost Estimate Engineer
 - Degree in Quantity Surveying or Engineering.
 - Minimum 8 years of experience in cost estimating/quantity surveying.
 - Experience in at least two civil engineering projects during the last 10 years.
- Land Surveyor
 - Sworn Land Surveyor with Diploma in Land Surveying.
 - Minimum 8 years of experience in surveying field.
 - Experience in at least two civil work projects.

Additional General Conditions

- One individual cannot hold more than one key position.
- Completed projects only are accepted to demonstrate specific experience.
- The lead partner of a joint venture must provide the Project Director.
- Expatriate engineers must comply with Mauritian laws and obtain registration with the CRPE before practising.

5.3 The official language of the contract and communication is English. All reports, submissions, and correspondence between the Client and the Consultant must be prepared in English.

5.4 Key experts must be registered with the relevant professional bodies.

5.5 The Consultant must submit a Technical Proposal and Financial Proposal through the Government e-Procurement System.

6. Shortlisting criteria

Shortlisting of consultants will be limited to Arab, African or Arab/African joint venture consulting firms and will be based on:

- profile of the company, its organigram and staffing;
- details of experience or similar assignments undertaken in the previous 5 years, including their locations ;
- the focus on the consultants' role in similar assignments. in the region or elsewhere;

7. Preparation and Submission of EOI online

(a) The Expressions of Interest and all accompanying documentation shall be submitted in English online through the e-Procurement System of the Government of

Mauritius at latest by **Date** [insert day and date] up to hours (Mauritian Time)

are allowed to rework on their submission as many times as required. However, after the deadline set for preparation and submission of EOI as per above, the time lock feature of the e-procurement system will not allow to modify/substitute their submission and attachments in any way.

Consultant may refer to the e-Procurement Guidelines accompanying this Request for Expression of Interest as attachment.

8. Supplementary Information

Any request for supplementary information should be made not later than 14 days prior to the dead line for submission of EOI online and any response from the Client shall be made online not later than 7 days prior to the said deadline.

9. Decryption and Re-encryption of EOI

After the closing time for submission of proposals, Consultants shall decrypt and re-encrypt their proposals within the time schedule provided hereunder to enable opening of their proposals. The time lock feature in the system will not allow consultants to decrypt and encrypt their bids outside the specified time frame.

Start Date and time(local)
End Date and time(local)

Where the Consultant does not execute the decryption and re-encryption of its submission within the time frame provided above, the submission shall not be

accessible for opening. In such cases the proposal shall be deemed to have been withdrawn by the Consultant.

10. Opening of the Expression of Interest

Expression of interest shall be opened online by the Client on:

Start Date and time (local):

Consultants having submitted an EOI will be able to view the opening of the EOI online.

Section 2

Terms of Reference

1. Background

1.0 Introduction

According to the Letter of Understanding (LOU) signed between BADEA and the Ministry of Finance (Government of Mauritius), the Government of Mauritius shall recruit Arab, African or Arab-African consulting firm (“Consultant”) on the basis of a short list and in accordance with BADEA’s guidelines and procedures to execute the feasibility study, and Detailed Designs including a Water Balance Study, Survey, Design, Preparation of Bid Documents and assistance during the bid evaluation for downstream works of Riviere des Anguilles water treatment plant. In addition, the said Consultant shall have the qualifications, the experience, the mandate and the conditions of employment/ appointment considered satisfactory to BADEA. The Central Water Authority (CWA) is the Employer under this Contract for execution and implementation of the downstream works of Riviere Des Anguilles Water Treatment Plant.

1.1 The Central Water Authority (CWA)

The Central Water Authority is a parastatal body operating under the aegis of the Ministry of Energy and Public Utilities. It is responsible for the treatment and distribution of potable water in Mauritius.

The Central Water Authority has as mission to secure and provide an excellent sustainable water supply service of appropriate quality, at a reasonable price, which meets the growing needs of the people and to support the economic development of the country.

The water supply infrastructure is made up of six main operational systems, namely:

- i. The Mare aux Vacoas Upper System
- ii The Mare aux Vacoas Lower System
- iii The Port-Louis System
- iv The District Water Supply – North
- v The District Water Supply – South
- vi The District Water Supply – East

The worksto be implemented under the projectarelocated in one of the six water system zones.

A brief description of the District Water Supply-South is given hereunder:

1.1.2 District Water Supply – South (DWS-S)

This system caters for the potable water needs of the Southern Districts of Grand Port and Savanne.

Main Water Sources

Surface Water

Ground Water

Normal Production = 121,319 m³/day

Surface water = 40%

Ground water = 60%

Treatment Plant

Rivière du Poste Treatment Plant

Mont Blanc Treatment Plant

System Characteristics

Service area covered = 220 km²

Population served = 210,000

No. of accounts = 57,615

In DWS South, the main sources of water are from rivers (surface water sources) and boreholes (underground water sources). They are namely Rivière du Poste Treatment Plant, Mont Blanc Treatment Plant, Bois Cheri filters and Mexico dam. Water is also imported from La Brasserie Reservoir and Piton du Milieu Water Treatment Plant in order to increase production in DWS South.

The Table below provides an overview of the normal water production from the surface and underground water sources as well as from imported sources.

<i>SN</i>	<i>Sources</i>	<i>Normal Production (m³/day)</i>
<i>A</i>	<i>Surface water sources</i>	
1	Rivière du Poste Treatment Plant	17,28
2	Mont Blanc Treatment Plant	0
3	Bois Cheri filters	14,00
4	Mexico dam	0
<i>B</i>	<i>Underground water sources</i>	2,800
5	Cluny Borehole and others	30,239
<i>C</i>	<i>Imported sources</i>	
6	La Brasserie Reservoir	3,000
7	Piton du Milieu Water Treatment Plant	4,500
<i>Total</i>		<i>121,319</i>

- Regions being supplied by Rivière du Poste Treatment Plant: Camp Diable, Tyack, Riviere des Anguilles, Batimarais, Chateau Beneres, St Aubin, Lady Barkly, Morcellement Brise de Mer, Souillac, Riambel, Gris Gris, Telfair

- Regions being supplied by Mont Blanc Treatment Plant: Chamouny, Chemin Grenier, Camp Charlot, Mont Carmel, Martiniere, Surinam, Riambel, Riviere des Galets, Bel Ombre, Baie du Cap, Michael Leal, Contour Prune
- Regions being supplied by Bois Cheri filters: Bois Cheri, Grand Bois, NHDC Grand Bois
- Regions being supplied by Trois Boutique Borehole: Mahebourg, Beau Vallon, Camp Carol Kenya,
Le Bouchon, Bois d'Oiseau Cassis Plaine Maignen

CWA has appointed Consultancy services for the rehabilitation and upgrading of Rivière du Poste Treatment Plant to treat 25,000 m³/day of water for distribution to the regions of Rivière des Anguilles, Camp Diable, Saint Aubin, Rose Belle and New Grove.

Moreover, CWA has also appointed Consultancy services for the rehabilitation and upgrading of Mont Blanc Treatment Plant to treat 15,000 m³/day of water for distribution to the regions of Surinam, Chemin Grenier, Riviere des Galets.

1.2 *The Existing Infrastructure*

The present infrastructure consists of the following main assets:

1. Impounding Reservoirs
2. Service Reservoirs
3. Boreholes/Pumping Stations
4. Trunk, Distribution and Services Mains

The Main impounding reservoirs of domestic water supply are given below:

	<i>NAME</i>	<i>TOTAL CAPACITY (MM³)</i>
1	Mare Aux Vacoas	25.8
2	Piton Du Milieu	9
3	Nicolière	2.99
4	Midlands	5.26
5	Bagatelle	25.5

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The management of the water released from these reservoirs is being dealt with by the Central Water Authority whilst the management/ownership of the reservoirs, themselves, along with the water resources are proposed to be vested with the Water Resources Unit, falling under the same parent Ministry as that of the Central Water Authority.

2. Objective(s) of the Assignment

The CWA is responsible for the treatment and distribution of potable water in Mauritius and also for implementation of water supply projects comprising of the Construction of Water Treatment Plants, Service Reservoirs, Pumping Stations and Pipelines.

An adequate water supply system is the prerequisite for the overall development of the island, a good health of the population and a prosperous economy of Mauritius.

Until today the South district of Mauritius is less developed with respect to population and industry in comparison for example with Port Louis, Plaine Wilhems area and the North district.

With the construction of Rivière Des Anguilles Dam in the Southern part of Mauritius which will be implemented by the Water Resources Unit (WRU), the use of available water resources and harnessing additional water resources from the rivers/acquifers will meet present and future water demands for both potable and irrigation water supplies for various time horizons up to 2050 and a continuous 24 hour supply service.

Moreover, the Central Water Authority (CWA) had appointed the services of a Consultant to carry out the Feasibility Study and Design for the Construction of Rivière Des Anguilles Water Treatment Plant to treat 50,000 m³ of water daily for its distribution to the regions of Rivière des Anguilles (except Tyack), St Aubin, Souillac, Le Morne up to a possible supply to Tamarin.

Since Rivière des Anguilles Water Treatment Plant will be situated between 185 m amsl and 190 m amsl, the whole South West of the Island can be supplied with the treated water by gravity.

This Consultancy Contract consists mainly of a Feasibility Study including a Water Balance Study, Survey, Design, Preparation of Bid Documents and assist in Bid Evaluation for the Downstream Works of Rivière Des Anguilles Water Treatment Plant. The project aims at providing a more reliable water supply to the Southern and South Western Part of Mauritius.

In order to enable proper implementation of project referred to above, the Central Water Authority intends to appoint Engineering Consultancy Firm/s, to provide the necessary Consultancy Services. The works are located as shown at **Section 7 – Drawings**.

CWA reserves the right to add, delete works under this Consultancy Contract. The scope of works for a particular Works Contract may be amended.

All Works shall be implemented concurrently.

3. Scope of Services, Tasks (Components) and Expected Deliverables

3.1 Downstream Works Rivière Des Anguilles Water Treatment Plant

For this project, the scope of the works shall comprise:

- 1) Construction of Trunk Mains and Distribution Mains to convey water from the Riviere des Anguilles Water Treatment Plant Pure Water Tank to existing and/or proposed Service Reservoirs and in the existing network.
- 2) Construction of new Service Reservoirs/refurbishment of existing Service Reservoirs.
- 3) Renewal of existing pipelines.
- 4) Other ancillary works necessary to ensure an optimum distribution of the treated water to the regions of Rivière des Anguilles (except Tyack), St Aubin, Souillac, Le Morne up to a possible supply to Tamarin.
- 5) Future water demands in the regions of Rivière des Anguilles, St Aubin, Souillac, Le Morne and Tamarin.

The CWA proposes to implement the works through the recruitment of Contractors viz Bidding exercises namely:

1. Construction of Reinforced Concrete Reservoirs and associated works.
2. Pipelaying works from the Riviere des Anguilles Water Treatment Plant Pure Water Tank to existing and/or proposed Service Reservoirs and to the existing network.
3. Renewal of existing pipelines.

The scope of works for a particular Works Contract may be amended based on findings during the study and as directed by the Client in view of meeting the objectives of the project. In this respect, the appointed Engineering Consultancy Firm shall provide Consultancy Services to carry out a Feasibility Study including Survey, Design, Preparation of Bid Documents and assistance during Bid evaluation for the abovementioned project.

3.1.1: Feasibility Study

At Feasibility Study Stage, the Consultant shall provide the following services:

- Carry out detailed water balance study.
- Liaison with CWA Departments for obtention of relevant data.
- Study of the existing water distribution network downstream of Rivière Des Anguilles Water Treatment Plant for the optimal distribution of 50,000 m³/day of treated water to the regions of Rivière des Anguilles (except Tyack), St Aubin, Souillac, Le Morne up to Tamarin.
- Analyse available data, carry out desk studies and prepare general drawings.
- Carry out necessary geotechnical tests.
- Detailed design for Reinforced Concrete reservoirs and associated works.
- Integrate the new water supply system with the existing water supply system.

- Design and sizing of pipelines.
- Prepare a preliminary cost estimate for the Works.

3.1.2: Design, Preparation of E-Bid Documents & Assistance during Bid Evaluation:

Following approval of the Feasibility Study by the **Central Water Authority**, the selected Consultancy Firm is to provide the following Consultancy Services:

- Preliminary design for Reinforced Concrete reservoirs and associated works.
- Detailed design for Reinforced Concrete reservoirs and associated works.
- Detailed Design and sizing of pipelines.
- Prepare E-Bid Documents for:
 1. Construction of Reinforced Concrete Reservoirs and associated works (using Fidic 1999 Red Book); and
 2. Pipelaying works from the Pure Water Tank to Service Reservoirs and to the existing network (Fidic 1999 Red Book).
- Assist the CWA during the bidding stage, reply to queries from prospective Bidders and formulation of Addenda / Clarifications.
- Prepare a detailed cost estimate for the Works.
- Assist the CWA / CPB during Bid evaluation.

3.1.3: Other Investigations

The Consultant shall carry out any other tests, investigations or studies necessary for proper performance of his assignment. These shall include:

- a) Study for existing service networks (water, electricity, telephone, etc.) to decide tapping points and quantities for the project implementation and management.
- b) Land acquisition details, compensation rates.
- c) Disaster prevention measures. Identification of zones of potential landslides and slope failures, as a result of the project. Detailed design measures necessary to prevent such failures, shall be part of the Consultants' assignment.
- d) Seek all necessary wayleave/clearances/authorisations with the relevant authorities for all the pipelaying works.

3.1.4: Geological and Geotechnical Investigations

A comprehensive geological and geo-technical investigations programme shall be worked out in consultation with the Client, including the preparation of Bidding Documents for awarding the works contract. ***The geological and geo-technical investigations shall be carried out within the timeframe allocated for the Consultancy Contract.***

The cost of actual field investigations ***shall not*** be included in the cost of Consultancy. However, the planning, preparation of Bidding Document, evaluation of bids, supervision and analysis of geological and geo-technical investigations shall form part of the Consultancy Services.

The Consultant is expected to submit a draft bidding document for vetting by the Client and at least three (3) bidders should be requested to submit their respective quotation¹¹ as per the

requirements of the Public Procurement Act. A copy of the Bid Evaluation Report for Geotechnical Investigation should be submitted to the CWA prior to award.

The Consultant shall be fully responsible for correctness of the requisite field investigations that shall be conducted under his overall guidance and supervision. The Consultant shall also obtain all necessary information and test results of field as well as laboratory tests from the concerned agencies, analyse same and submit a detailed report on these investigations. The Consultant shall be responsible for the overall management of the geological/geotechnical investigations contract.

3.1.5 – Trial Pit and Road Reinstatement

A comprehensive investigations programme of the existing underground services shall be worked out in consultation with the Client, including the preparation of Bidding Documents for awarding

the works contract. ***The trial pit and road reinstatement shall be carried out within the timeframe allocated for the Consultancy Contract.***

The cost of actual field investigations shall not be included in the cost of Consultancy. However, the planning, request for wayleave from the authorities, preparation of Bidding Document, evaluation of bids, supervision and analysis of the trial pit and road reinstatement shall form part of the Consultancy Services.

The Consultant is expected to submit a draft bidding document for vetting by the Client and at least three (3) bidders should be requested to submit their respective quotation as per the requirements of the Public Procurement Act. A copy of the Bid Evaluation Report for the trial pit and road reinstatement should be submitted to the CWA prior to award.

The Consultant shall be fully responsible for correctness of the requisite field investigations that shall be conducted under his overall guidance and supervision. The Consultant shall be responsible for the overall management of the trial pit and road reinstatement contract.

4. Nature of Services

The services required from the Consultant for works related to this Consultancy Contract shall comprise but not be limited to the following:

- a) Study all the available records, reports and drawings pertaining to the requirements of the works, and to the site locations and conditions, and prepare a list of issues requiring investigations or special attention to the reservoirs.
- b) Review of any existing designs and collection of data from existing reports, drawings, site observations, and other relevant sources and prepare a list of issues requiring investigations or special attention for the hydraulic design of Trunk Mains and Distribution Mains.
- c) Make detailed topographical surveys of the proposed site for eventual preparation of layout plans.
- d) Conduct geotechnical investigations for proper siting of the reservoirs and produce the geotechnical report. Copy of the report is to be submitted to the Client. Cost of all tests to be borne under the provisional sum earmarked under the RFP.
- e) Investigate all site features susceptible of affecting the proposed construction works.
- f) Carry out preliminary and detailed design of all the components of works according to the latest British Standard or any other equivalent Standard acceptable to the Client.

g) Carry out hydraulic design of Trunk Mains and Distribution Mains. The design of the water distribution network shall include simulation using appropriate CAD software to study the behaviour of the water distribution network at peak and off peak flows. Based on the findings, the Consultant shall prepare Feasibility/Design reports.

h) Investigate the quantitative aspects of potable water to be distributed and make appropriate proposals so as to supply water at a reasonable cost.

f) Liaise with all concerned Authorities for wayleave purposes and coordination with other stakeholders in connection with the Water Treatment Plant and Dam.

The Consultant shall employ its Sworn Land Surveyor to carry out the following duties in relation to surveys, wayleaves and Land Acquisition as follows:

i) To carry out preliminary site visits, inspections, searches, investigations about sites to be surveyed and reported upon with plan drawings, especially in relation to wayleaves, levellings, contouring, surveys under the new laws for land acquisition and other purposes.

ii) To effectively carry out surveys to draw up the plans and to do the registered reports of the sites under the new laws governing land surveys.

iii) To submit an original or true copy of the Consultant's Sworn Land Surveyor's registered plan and report with all details thereon to the CWA for its surveyor to secure the wayleaves and make the land acquisition under the laws as mentioned above.

Based on the findings further to the above investigations, the Consultant shall prepare a Technical Inception Report.

The Inception Report should be submitted within 2 weeks after the start of the Consultancy

Contract. The time frame for Client's approval is 1 week following submission of the Inception Report.

Feasibility Report

- (a) Investigate all site features susceptible of affecting the proposed construction works.
- (b) Carry out necessary geotechnical tests.
- (c) Prepare a project cost estimate and a tentative implementation schedule for all associated works.
- (d) Prepare and submit a Feasibility Report within 6 weeks following the approval of the Inception Report by the Central Water Authority.
- (e) Following submission of the Feasibility Report by the Consultant, the time allocated for Client's approval is 4 weeks.

Design Stage

Following the approval of the Feasibility Report by the Client, the Consultant shall carry out the Preliminary Design and submit same to the Central Water Authority within 6 weeks after the approval of the Feasibility Report, followed by a time frame of 4 weeks for vetting by the Central Water Authority.

Following the approval of the Preliminary Design by the Client, the Consultant shall carry out the detailed design and submit same to the Central Water Authority within 8 weeks, followed by a time frame of 3 weeks for vetting by the Central Water Authority.

The Detailed Design Stage shall comprise of Feasibility Study / preliminary survey, collection, analysis of available data, desk studies, sizing of and preparation of general drawings.

The Detailed Design stage for proposed treatment plant shall also comprise of:

- a) topographical and other surveys, identification/assessment of existing infrastructures, identification and comparison of possible schemes, selection of optimum solution, preparation of cost estimates and identification of wayleave/clearances and existing services.
- b) Investigate all site features which may affect design of the works.
- c) Carry out detailed design of all the components of the works. Design should be according to the latest British Standard or any other equivalent standard acceptable to the Client.
- d) Prepare and submit design calculation notes to enable the Client to appraise the designs and their conformity to his requirements.
- e) Prepare engineering drawings to be used for bidding and construction of the works.
- f) Prepare the Bill of Quantities to be used for assessing the cost of the works.
- g) Provide the Client with any technical advice he requires in deciding the way in which the project must be implemented, including phasing of the works in order to minimize costs.
- h) Preparing monthly reports for the information of the Client and the funding agencies and to obtain decisions and directives on any particular aspect of the services.
- i) Hydraulic Design of pipelines by simulation using CAD software and prepare drawings and cost estimates for specific project components.

The Design Report submitted to the Central Water Authority must be signed by all Key Personnel involved. Submission under this stage for the works of this Consultancy Contract shall be made in form of a Design Report.

E-Bid Document

- The works will be implemented through Contracts. The Consultant shall submit a set of draft e-bid document as which shall be examined by the Client and any appropriate comments/suggestions made shall be carefully studied and its implications communicated to the Consultant. The Consultant shall be required to submit the final documents incorporating any amendments as a result of the foregoing.
- The e-Bid Document shall be suitable for international bidding and shall conform to the Public Procurement Act, the laws of Mauritius and to the requirement of the CWA/CPB. FIDIC Conditions of Contract 1999 (Red Book), as appropriate shall be used.

E-Bid Document for the Downstream Works of Rivière Des Anguilles Water Treatment Plant
The e-Bid Document shall be submitted within 4 weeks following vetting of the Design.

- To be based on e-Procurement
- To be based on FIDIC Conditions of Contract 1999 (Red Book)
- Time frame for the Central Water Authority to vet the e-Bid Document is 3 weeks.

Note: As per the Public Procurement Act 2006, bid documents for major projects exceeding MUR 135 M are vetted and approved by the Central Procurement Board.

- The Consultant shall assist the Client in the invitation of Bids advertisement, conduct pre-bid visit and in the preparation of necessary replies to queries from prospective Bidders. The replies shall need to be finalised in consultation with the Client before issue to

prospective Bidders. A period of 12 weeks has been earmarked for Bidding Process and Bid Evaluation.

- The Consultant shall attend meetings with the regulatory body/Ministry regarding any matter relating to the Bid exercise for construction works.
- The Consultant shall assist the Bid Evaluation, prepare and submit Bid Evaluation Reports, making clear and firm recommendation for award of Contract.
- To assist the CWA in any pre-award and post award negotiations.

Meetings with Client

The Consultant shall attend the following meetings/site visits which will be scheduled regularly and sometimes at short notice:

- Meeting and site visits with the CWA/Representatives of the Ministry
 - Meetings and site visits with CWA representatives
 - Any other meetings and site visits in connection with the projects
 - To provide assistance to the client during liaison with CPB (vetting of bid document)
- 2) The Consultant shall submit reports (including project brief) on ad-hoc basis and relating to any specific matter relating (e.g. proposed disbursement schedules for the Works Contracts) as and when required by the Client.
- 3) All reports shall be submitted in a format to be given by the Client.
- 4) Compliance with Procurement and other Regulating Authorities

The Consultant shall comply with the guidelines, recommendations and directives of the Government Authorities responsible for procurement and other matters relating to project implementation. Such directives, recommendations and guidelines shall be duly considered in the preparation of E-Bid Document based on FIDIC Conditions of Contract 1999 (Red Book), as appropriate and at any stage in the provision of Consultancy services.

5. Timeframe for Consultancy Services

In consideration of the nature and extent of projects to be implemented under the present Consultancy, a total duration ***of 48 weeks, as more fully described in sub-section 9 of the Terms of Reference***, is being allowed as contract period for the Consultancy Services to cover the projects. Accordingly, the Consultant shall carry out all necessary surveys, collect all required data, design, prepare E-Bid Document based on FIDIC Conditions of Contract 1999 (Red Book), as appropriate, and assist in Bid Evaluation within the duration of the Consultancy Services.

It will be the Consultant's responsibility to submit advance/timely notification to the Client on potential delays for the latter to decide on appropriate actions. Any delay by the Consultant will be dealt with under the Professional Liability Insurance Cover Clause. Notwithstanding the foregoing, the Consultant will be fully responsible for providing timely notification on any potential delay and for submitting all relevant particulars immediately after occurrence of any delay, whether at design stage or during construction, such that appropriate amendments may be brought to the services programme.

Termination by the Client shall be according to Clause 19.1.1 of the General Conditions of Contract.

6. Additional Services to be provided by the Consultant

Payment for additional services provided requested by the Client and by the Consultant shall be as per the rates inserted by the Consultant in **Form FIN-3** of the Bid Document and on actual inputs.

7. Team Composition & Qualification Requirements for the Key Experts (and any other requirements which will be used for evaluating the Key Experts under Data Sheet 21.1 of the ITC)

Sr No.	Title	Minimum Qualification
1	Project Director / Manager (1 No.)	<p>Academic Qualifications: Degree Holder in Civil Engineering, registered with a relevant Professional Body.</p> <p>General Experience: A minimum of 15 years of experience in the relevant field of engineering.</p> <p>Specific Experience: Involved as Project Director/Manager pertaining to projects of at least 5 km of potable water pipeline with Ductile Iron pipe of diameter ≥ 150 mm or HDPE pipe of diameter ≥ 160 mm during the last 15 years; length may be cumulative in several projects.</p>
2	Structural Engineer (1 No.)	<p>Academic Qualifications: Degree Holder in Civil/ Structural Engineering registered with a relevant Professional Body.</p> <p>General Experience: A minimum of 8 years of experience in Civil Engineering works.</p> <p>Specific Experience: Involved as Structural Engineer in the Design / Design review of at least one Reinforced Concrete Water Retaining Structures of at least 1,000 m³ during the last 15 years.</p>
3	Civil Engineer (1 No.)	<p>Academic Qualifications: Degree Holder in Civil Engineering, registered with a relevant Professional Body.</p> <p>General Experience: A minimum of 8 years of experience in Civil Engineering works.</p> <p>Specific Experience: Involved as Civil Engineer in the Design of at least 5 km of potable water pipeline with Ductile Iron pipe of diameter \geq</p>

		<i>150 mm or HDPE pipe of diameter \geq 160 mm during the last 15years; length may be cumulative in several projects.</i>
4	<i>Mechanical Engineer or Electrical Engineer or Mechatronics Engineer (1 No.)</i>	<p><u>Academic Qualifications:</u> <i>Degree Holder in Mechanical or Electrical Engineering or Mechatronics Engineering, registered with a relevant Professional Body.</i></p> <p><u>General Experience:</u> <i>A minimum of 8 years of experience in Mechanical/Electrical or Mechatronics Engineering works.</i></p> <p><u>Specific Experience:</u> <i>Involved as Mechanical/Electrical/ Mechatronics Engineer in the Design/Design Review of at least two Pumping Station Projects during the last 10 years .</i></p>
5	<i>Geotechnical Expert (1 No.)</i>	<p><u>Academic Qualifications:</u> <i>Master Holder in Geotechnical Engineering or equivalent, registered with a relevant Professional Body.</i></p> <p><u>General Experience:</u> <i>A minimum of 8 years of experience in the field of Civil Engineering.</i></p> <p><u>Specific Experience:</u> <i>Involved in at least two Civil work projects comprising of geotechnical investigation during the last 10 years</i></p>
6	<i>Quantity Surveyor / Cost Estimate Engineer (1 No.)</i>	<p><u>Academic Qualifications:</u> <i>Degree Holder in Quantity Surveying or degree in Engineering, registered with a relevant Professional Body.</i></p> <p><u>General Experience:</u> <i>A minimum of 8 years of experience in Quantity Surveying/Cost Estimating of Projects.</i></p> <p><u>Specific Experience:</u> <i>Involved as Quantity Surveyor / Cost Estimate Engineer in at least two Civil work projects during the last 10 years.</i></p>
7	<i>Land Surveyor (1 No.)</i>	<p><u>Academic Qualifications:</u> <i>Sworn Land Surveyor with Diploma in Land Surveying.</i></p> <p><u>General Experience:</u> <i>A minimum of 8 years of experience in the Surveying field.</i></p> <p><u>Specific Experience:</u> <i>Involved as Land Surveyor in at least two Civil work projects.</i></p>

Note:

Key personnel for: Feasibility Study, Design, Preparation of Bid Document and Assistance during Bid Evaluation for Downstream Works of Rivière Des Anguilles Water Treatment Plant.

- 1) For key personnel, the projects submitted to demonstrate the specific experience of proposed personnel must specify clearly the following, where appropriate:
 - i. The start and completion date of the project must be mentioned in the list of projects submitted.
 - ii. Where experience in design and/or design review are mentioned in the minimum qualifications, same must be mentioned in the list of projects submitted.
- 2) The projects mentioned in the specific experience for key personnel must have already been completed; ongoing projects will not be accepted.
- 3) One individual must assume the duty of one title only.
- 4) The lead partner, in case of a joint venture/consortium/association, shall provide the Project Director.
- 5) The lead partner, in case of a joint venture/consortium/association, shall provide the Project Director.
- 6) In the event that a prospective Consultant envisages to employ expatriate Engineers, registration with a professional body in a foreign country shall be considered provided it complies with the laws of Mauritius viz. Prospective Consultants are to ensure that any expatriate engineer that may be proposed comply with the Laws of Mauritius. At OAB stage, registration with Council of Registered Professional Engineers of Mauritius (CRPE) for expatriate Engineers is not necessary. However, expatriates intending to engage in the practice of Engineering in Mauritius will be required to obtain registration with the Council of Registered Professional Engineers of Mauritius (CRPE) prior to the start of work. For additional information, the following may be consulted: www.crpemauritius.com.

Note: The Profession of Quantity Surveying in Mauritius is regulated since September 2013 by the Professional Quantity Surveyors' Council Act (PQSC Act) and as such no person is authorized to practice as a Quantity Surveyor in Mauritius, unless he/she is registered as Professional Quantity Surveyor with the said Council. In the event that a prospective Consultant envisages to employ a Quantity Surveyor, registration with a professional body in a foreign country shall be considered provided it complies with the laws of Mauritius viz. Prospective Consultants are to ensure that any expatriate Quantity Surveyor that may be proposed comply with the Laws of Mauritius. Expatriates intending to engage in the practice of Quantity Surveying in Mauritius will be required to obtain registration prior to the start of work. For additional information, the following may be consulted: www.pqsc.mu.

7) Any additional staff, as deemed necessary by the prospective Consultants should be added to Form FIN-3.

8. Reporting Requirements and Time Schedule for Deliverables

<i>Documents/Reports</i>	<i>Description of Project</i>	<i>No. Of Hard Copies per Contract</i>	<i>When to Submit</i>	<i>Time Frame for Approval/Vetting</i>
<i>Inception Report (common report)</i>	Downstream Works of Rivière Des Anguilles WTP	5+1Soft Copy (Word, Excel, Autocad versions, etc)	Within 2 weeks after start of Consultancy Contract	Within 3 week after receipt of Inception Report
<i>Feasibility Report</i>	Downstream Works of Rivière Des Anguilles WTP	5+ 1 Soft Copy (Word, Excel, Autocad versions, etc)	Within 10 weeks after approval of the inception report	Within 4 weeks after receipt of Feasibility Report
<i>Geotechnical Report</i>	Downstream Works of Rivière Des Anguilles WTP	2+ 1 Soft Copy (Word, Excel, Autocad, etc)	After completion of Geotechnical Investigations	Not required.
<i>Detailed Design Report</i>	Downstream Works of Rivière Des Anguilles WTP	5+ 1 Soft Copy (Word, Excel, Autocad, etc)	Within 10 weeks after approval of Feasibility Report	Within 4 weeks after receipt of Design Report.
<i>E-Bid Document</i>	Downstream Works of Rivière Des Anguilles WTP	5 + 1 Soft Copy (Word, Excel, Autocad, etc)	Within 6 weeks after vetting of Detailed Design Report	Within 3 weeks after submission of E-Bid Document
<i>Monthly progress reports</i>	Downstream Works of Rivière Des Anguilles WTP	2 + 1 soft copy (Word, Excel, Autocad, etc)	At end of each month	

**Note: All documents must be submitted in pdf and word version
 Bill of Quantities must be submitted in Excel version
 All drawings must be submitted in an editable CAD version**

9. Tentative Implementation Schedule

A tentative implementation schedule is as follows:

9.1 Study, Design and Preparation of Bid Document	-	32
9.2 Recruitment of Contractor		weeks
Bidding	-	
Bid Evaluation	-	8 weeks
		8 weeks

Section 3

Response forms

Consultants will have to respond to this invitation for Expression of Interest by filling in the response templates online.

Expression of Interest (EOI) – Consultancy Services

Consultants are required to fill in the covering letter of their EOI online.

Respondent's Submission

Consultants are required to fill in the response templates online. The content and tables shown hereunder is for information only. The data to be submitted online as Respondent's Submission has been grouped into four templates as follows:

1. Section I
2. Section II
3. Section III, IV and V
4. Attachments

Procurement Reference No	[to be inserted by public body]
Project Name	CWA/C2022/122 - Consultancy Services for the Feasibility Study, Detailed Designs including a Water Balance Study, Survey, Design, Preparation of Bid Documents and Assistance in Bid Evaluation for the stream Works of Rivière des Anguilles Water Treatment Plant
Project Country	<i>Mauritius</i>

I. Consultant's Information

Date:	Country of Incorporation ¹ (if applicable)
Consultant Name:	Acronym:
EOI Submission Authorized by:	Position

¹ The Consultant must submit a copy of the Certificate of Incorporation of itself through VII EOI Attachments

Associations (Joint Venture or Sub-consultancy)

Serial No.	Consultant	Acronym	Country of Incorporation (if applicable) ²	Joint Venture (JV) or Sub-consultant	EOI Submission Authorized By	Position

Present the rationale for and benefits of working in association (JV or Sub-consultant) with others rather than undertaking the assignment independently (as appropriate). Describe the proposed management and coordination approach of the association and the role of each firm.

We confirm that:

- Documentation regarding our corporate structure including beneficial ownership has been attached.
- Documentation regarding our Board of Directors has been attached.
- A written agreement to associate for the purpose of this Expressions of Interest has been signed between the joint venture partners and has been attached.

II. Assignment Specific Qualifications and Experience

We list hereunder our project references which demonstrate our technical competence and geographical experience.

(Please provide relevant project information in Section D below).

² The lead consultant must submit a copy of the Certificate of Incorporation of itself and of each JV member and sub-consultant through VII. EOI attachments..

A. Technical Competence

. Project References, highlighting the technical qualifications of our entity/joint venture in undertaking assignments and details of past experiences working with project authorities.

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B. Similar Experience

Project References, highlighting the technical qualifications of our entity/joint venture in undertaking similar assignments and details of past experiences working with similar project authorities.

C. Other relevant Information (maximum of 500 words)

--

D. Project References

We list hereunder our most relevant projects to demonstrate the firm's technical qualifications and similar experience (maximum...*[public body to specify number]* projects).

SN	Project	Period	Client	Country	Firm
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Project Summary

SN 1	
Project Title	

Country / Region	
Start Date	
Completion Date	
Continuous / Intermittent Client	
Funding Source	
Description	(indicate your role and input in person-months)

SN 2	
Project Title	
Country / Region	
Start Date	
Completion Date	
Continuous / Intermittent Client	
Funding Source	
Description	(indicate your role and input in person-months)

(Please insert more tables as necessary)

III. We submit our comments on Terms of Reference

IV. We list hereunder the Key Considerations in approaching this assignment (no more than 9,000 characters summarizing approach and methodology)

V. The details of the Key Experts available for this assignment

(a) Relevant Experience of the Single Entity's organization/Joint Venture members Professional Staff are listed hereunder:

SN	Name	Qualification	Years of experience	Relevant Experience				
				Name of assignment - Duration	Client	Position	Duration	
							From	To
1								
2								
3								
4								
5								

(Please insert more rows as necessary)

(b) Relevant Experience of the External Professional Staff available to the Consultant

SN	Name	Qualification	Years of experience	Relevant Experience				
				Name of assignment - Duration	Client	Position	Duration	
							From	To
1								
2								
3								
4								
5								

(Please insert more rows as necessary)

VI. EOI Attachments

SN	Description
1	Certificate of Incorporation of the lead member (if applicable)
2	Certificate of Incorporation of the JV member (for each member) (if applicable)
3	Letter of Joint Venture/intent of Joint Venture
4	Documents regarding corporate structure including beneficial ownership
5	Documents regarding Board of Directors
6	Any other attachment

[Please insert more rows as necessary]