MINISTRY OF ENVIRONMENT, SOLID WASTE MANAGEMENT AND CLIMATE CHANGE
(Solid Waste Management Division)

INVITATION FOR EXPRESSION OF INTEREST
(Authorised under section 24(2) of the Public Procurement Act 2006)

Consultancy Services for the Supervision of Works/Operations in relation to the Vertical Expansion of the Mare Chicose Landfill – Mauritius

1.0 The Ministry of Environment, Solid Waste Management and Climate Change (Solid Waste Management Division) of the Republic of Mauritius is inviting Expressions of Interest from interested civil engineering consultancy firms to provide Consultancy Services for the ‘Supervision of Works and Operations in relation to the Vertical Expansion of the Mare Chicose Landfill for a period of 48 months’. The Services will be funded by the Ministry of Environment, Solid Waste Management and Climate Change, Mauritius.

2.0 The sole landfill in Mauritius, the Mare Chicose Landfill, spans over an area of about 50 Ha with the effective landfilling footprint on some 40 Ha. The landfill is operational since 1997, and as of today, more than nine million tonnes of municipal solid waste have been received therein. Due to limited options for lateral extension of the facility, the Ministry had no other options than to proceed with the Vertical Expansion of the existing landfill. Accordingly, after the necessary feasibility study to determine the best option for vertical expansion and necessary site investigations, tender documents were prepared and launched. Bids received are currently under evaluation process. It is estimated that the new contract at the landfill will be in place and effective by December 2021. The two entities currently performing on site are:

(a) JV Sotravic/Eneotech as Contractor for the operations of the active cells and post closure management of closed cells under two separate contracts, both lapsing by end of November 2021; and

(b) COWI A/S in association with Luxconsult as Consultant/Engineer till mid-August 2022, immaterially of which Works/Operations Contract is in place.
3.0 The Vertical Expansion Works basically include the following:-

(a) Construction of approximately 1300mm of Slanted Wall comprised of gabions, G7 Fill and Geogrids;
(b) Foundation improvement works with the installation of some 2500 units of Controlled Modulus Columns along the stretch of the wall;
(c) Progressive removal of capping cover to allow for staged raising of the landfill;
(d) Miscellaneous civil works encompassing the construction of drains, roads, fencing, etc;
(e) Installation of landfill gas and leachate collection pipe reticulation system with associated M&E equipment;
(f) Setting up of a Landfill Gas to Energy Plant on a Build, Operate and Own basis;
(g) All operational aspects, including landfiling, leachate & gas management and environmental monitoring.

4.0 Scope of Services

(a) Supervision of Works/Operations at the Mare Chicose Landfill as per FIDIC 1999 – Red Book for a period of 48 months;
(b) Preparation of detailed design for various works/operations component to supplement existing design and tender drawings, as may be required; and
(c) Active Project Management attributes to ensure strategic and organized development of the Vertical expansion works/operations with an objective to attain best value for money to the Employer.

5.0 Eligibility

The bidding exercise is opened to bidders holding at least 10 years’ experience in waste management and having designed and supervised works/operations of at least two engineered sanitary landfills of minimum size 20 Ha each, whereby the design included geomembranes liners, leachate networks and landfill gas abstraction and flaring.

6.0 Team Composition & Qualifications

The Consultant shall appoint suitably qualified and experienced technical and other staff as may be necessary to ensure that the services are carried out adequately and efficiently.

The Team shall comprise the following key personnel:-
(i) A Landfill Expert, holding a degree in Science or Engineering, having designed and supervised at least two engineered sanitary landfill projects of magnitude and complexity as indicated under Item 5.0. He shall be designated as Project Manager during the execution of the Consultancy Contract. His physical deployment on the Project in Mauritius shall be on a full-time basis for the first year and follow a diminishing trend for the ensuing years, tentatively indicated in the ratio of 100%:50%:20%:20%. Such a scheme purports to induce capacity building in a competent local counterpart for eventual assumption of key responsibilities;

(ii) A high calibre local Civil Engineer holding 15 years’ post registration experience in civil engineering works and related environmental works to assist in the supervision of Landfill Works and Operations with the objective of acting as Project Manager as from the third year of the Consultancy Contract. The local Civil Engineer shall be deployed on a full-time basis;

(iii) A Civil /Geotechnical Engineer holding a degree in Engineering and having specific experience in supervision of at least one foundation improvement works and at least one embankment works using gabion/geogrid/fill materials of comparable nature to those envisaged for the Mare Chicose Landfill. The Civil/Geotechnical Engineer shall be deployed on a full-time basis for the first two years, with diminishing inputs over the remaining time of the contract;

(iv) A Leachate Specialist, holding a degree in Science or Engineering having at least 15 years’ experience in leachate management. The Leachate Specialist shall be deployed on a part-time basis.

(v) A Landfill Gas Specialist, holding a degree in Science or Engineering and having at least 15 years’ experience in landfill gas management. The Landfill Gas Specialist shall be deployed on a part-time basis.

(vi) A local M&E Engineer holding 15 years’ post registration experience with at least five years’ experience in installation and maintenance of pumps and generators. Experience in power generation from biogas will represent a definite advantage. The local M&E Engineer shall be deployed on a part-time basis.

7.0 Documents comprising the Expression of Interest

Interested Consultancy firms shall submit the following:

(i) Covering Letter;

(ii) Profile of the Company, its organization and staffing;

(iii) In the case of associations between two or more firms, the name, address and profile of the participating firms, and the nature of the association such as, joint venture or subcontract with identification of the lead firm;
(iv) Details of experience on similar assignments undertaken in the previous 10 years, including locations; and
(v) The curriculum vitae of key staff as required under Item 6 above.

The above information will be used to determine the capability and experience of the consultants and to draw up a shortlist of consultancy firms who will be invited to submit proposals following the issue of a Request for Proposal (RFP) by the Ministry. It is to be noted that it is important for the firms and proposed personnel to pass the eligibility and qualification criteria in order to be short listed for participation in a RFP exercise.

The Employer reserves its rights to alter the requirements, in terms of type and qualifications of key personnel, in the ensuing RFP to match the objectives of the Project.

8.0 Submission of Expression of Interest

Interested firms should forward their Expression of Interest in two (2) sets (original + 1 copy) bearing reference “Supervision of Works & Operations in relation to the Vertical Expansion of the Mare Chicose Landfill for a period of 48 months” to the Permanent Secretary at the address below not later than 13h30 hours (local time) on 24 November 2021

Any request for additional information should be sent to the same address.

Ministry of Environment, Solid Waste Management and Climate Change
(Solid Waste Management Division)
10th Floor, Emmanuel Anquetil Building
Cnr Jules Koenig & SSR Streets
Port Louis, Mauritius

8 October 2021