**Outsource Consultancy Services required to Review, Analysis, Supervision of Installing the Hypo-Dosing Lines at RAF B , B2 and A2 Stations**

**General Information:-**

Qatar Electricity & Water Company (QEWC) is considered to be a forerunner among private sector companies involved in the field of Power Generation and Water Desalination in the Gulf region.

QEWC currently owns and operates following Plants:-

1. RAF-B & B2 Power and Desalination Plants.
2. RAF-A1 & A2 Desalination Plants.
3. Dukhan Desalination Plants.

**Sea Water intake system:-**

Sea water is supplied to Ras Abu Fontas-B Power Station from four off-shore intake points, for B2 station three intake points , A1 Station Three off-shore intake points & for A2 Station Two off-shore intake points, which are located approx. 2 km away from Seawater Pump House through GRP intake pipes; each pipe is of 1900 mm in diameter, 22.75 mm total thickness and are placed approx. 6 meters under the sea level .

There is newly installed (6years old) HDPE chlorine dozing lines outside the intake pipes along its length, installed on the sea bed, to maintain the Chlorine level.

This chlorine dozing system usually requires acid cleaning for every 3 months in order to ensure the cleanliness of the system.

**Objective:-**

Leaks (Crack) from HDPE Chlorine dosing lines observed frequently in RAF B / B2 and A2. Due to the Leaks, Chlorine level is not maintaining at the Intake.

**Aim:-**

QEWC will install New Hypo lines with supports, clamping. Foundations, with flushing system & Acid cleaning facility.

**Consultant Scope of Work:-**

* To review the technical scope provided by the Bidder
* To ensure the selected piping Material suitable to Sodium Hypo Chlorite of 12% Concentration.
* To ensure the position of Piping, Clamping, Foundation to avoid the leaks & damage due to High & low tides of the Sea and also ensure the system without any problem & reliable
* To review the new Flushing system which advised by the Bidder & to confirm the flow, water velocity & Pipe Support can with stand as the velocity of water is more than the chemical which we dose in order to remove Scaling or deposits in the lines.
* To ensure that the Bidder has given flexibility to carry out Acid Cleaning/Flushing/Injecting chemical in to the Hypolines
* To ensure the material selection of the new installed lines will be durable for 5 years.

**Note:-**

* Option should be given for the daily rate / hour to supervise the activates during the implementation and piping installation to ensure the work is going as per the international standard & accepted Scope of work by the Consultant.
* For Qualification Document, the Supplier should provide in his offer the references for the work which carried out and CVs to show the capability and experience in the similar work.