**Outsource Services required to Review, Installing / Replacing of 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, 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.

**Scope of Work:-**

* Supply & Installation of 6” HDPE lines with Compression fittings which will be used to dose Sodium Hypo Chlorite of 12% Concentration or Supplier can advise the suitable piping Material.
* To provide Piping supports, Clamping & Foundation for the new Hypo Lines with maintaining proper distance between Foundations to ensure the new installed Hypo lines will not have movement to avoid leak & damage due to high & low tide currents.
* Supplier has to provide the details for clamping, foundations , Pipe & Valve Supports to QEWC for review
* To review & fix new Sea water header to facilitate the flushing when we are stop dosing Hypo to avoid scaling in the Lines. Sea water booster pump can be added to improve the pressure if required.
* .To provide the provision for Acid Cleaning by arranging flange with Valves in Main hypo lines

**TERMS AND CONDITIONS:**

* All the required Materials, Tools, manpower, speed boat /barge, diving equipment’s, Video shooting equipment etc shall be arranged by the Supplier.
* High Quality Material should be used & the supplied material should be suitable for Marine applications & as well as chemical resistant.
* Supplier should provide 2 year Warranty for the Material & the Services.
* Supplier should attend the defect within the short time during the warranty period.
* Supplier should provide Method of Statement & Risk Assessment
* Supplier should follow QEWC safety regulation strictly
* Supplier to arrange MIC gate pass .

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