

**1. GENERAL**

**1.1 Work Included**

- .1 Installation, including the supply of water supply, injection and sampling ports, and coordination with and assistance to the UV equipment supplier during start up and testing of equipment for the validation testing of the UV reactors.
- .2 Details of the Validation Protocol can be found in the Equipment Supply Contract for the UV Reactors.

**1.2 Definitions**

- .1 Testing: In this division, testing shall be defined as the operation of a specific item of equipment under actual and/or simulated conditions for the purpose of ensuring the equipment satisfies its basic design criteria. Testing shall be conducted by the Contractor. All materials, labour, and equipment required to conduct the tests shall be the Contractor's responsibility.

**1.3 SUBMISSIONS**

- .1 The Contractor shall check all the shop drawings relative to the equipment and materials, dimensions, measurements, size of members, type of materials, controls, list of equipment being supplied, names of manufacturers, and other details to satisfy himself that they are correct and conform to the requirements and intent of the Contract.

**2. PRODUCTS**

**2.1 Equipment Supplied by Contractor**

- .1 All equipment listed in the Specifications, or shown on the Drawings shall be installed by the Contractor unless indicated otherwise.
- .2 Determine the extent of equipment to be installed from the Specifications, list of equipment and materials and Manufacturer's Drawings covering the equipment. All additional materials necessary to complete the installation shall be furnished and installed by the Contractor.

**2.2 Equipment Supplied by Others**

- .1 The UV equipment supplier will supply and install equipment for validation of the UV reactors

**3. EXECUTION**

**3.1 Coordination**

- .1 Coordinate the Work specified under this Section with the work of other Sections and Contracts to produce a complete and workmanlike job.

**3.2 Preparation**

- .1 Before commencing installation of the Work, inspect and take field measurements and ensure that any work carried out previously in the area is not prejudicial to the proper installation of the Works.
- .2 Schedule the visits to the site, of the Supplier's serviceman, if required, for the times and periods specified in other sections. Cooperate with the serviceman in his supervision of the installation and start up and follow all reasonable instructions of the serviceman. Should the Contractor require the serviceman to attend for longer or more frequent periods he shall arrange this, at his own expense, with the Supply Contractor.

**3.3 Installation of Equipment**

- .1 All equipment shown on the Drawings is to be installed by the Contractor.
- .2 Equipment shall be installed by the Contractor in accordance with the manufacturer's recommendations.
- .3 Dimensions shown on the Drawings for piping connections, etc., are approximate and must be corrected by the Contractor to suit the dimensions of the exact equipment selected for each application. Any necessary modifications to piping connections or to pipework shall be arranged by the Contractor at his own expense and must be acceptable to the Contract Administrator.
- .4 Supply all necessary shims, gaskets, etc., and all necessary lifting and loading equipment and tools, etc., required to complete the installation.
- .5 Extend any inaccessible drains to convenient locations.
- .6 The Contractor shall coordinate with, and provide assistance to, the UV equipment supplier during installation testing and use of the validation equipment. The Validation Protocol is available for viewing at the office of the Contract Administrator.

**END OF SECTION**