

## T/2459833/2023

# Supply, installation, and commissioning of Sand filter at Khasab STP

### SCOPE SYNOPSIS

- Supply and installation three of pressure sand filter with multimedia, pressure gauges, pressure switches, proper inlet, and outlets of size:6", both dish ends, and at top 450 mm manhole access cover, shell thickness:6mm, head Thickness:8 mm, Dia:2.2m, height :2.4m with four supports
- Supply and installation three set of Motorized valves for automatic operation of Pressure sand filter:
  - Filter inlet & Outlet:4"
  - Back wash inlet & Outlet:4" & 6"
  - Drain outlet: 4"
  - Air scouring: 2"
- Control panel for complete auto/Manual operation of the pressure sand filter integrated with PLC system.
- Modification of Existing UF feed pump pipeline to Pressure sand filter feed pump (2 Nos).
- Supply and installation two of air scour blower of capacity: 200m<sup>3</sup>/hr@5psi. with proper pipe and fittings
- Supply and installation two of backwash pump, flow rate: 60m<sup>3</sup>/hr head: 50 m, End suction type
- Supply and installation of internal pipeline work of HPVC size: 4" & 6", with proper supports and fittings.
- Supply and installation of internal cabling for auto and manual operation of Pressure sand filter

### General:

- Do not commence any work without approved drawings and/or MAS.
- Obtain all relevant permits from Haya Water, governing bodies, agencies, and/or regulatory bodies before commencing any works.
- Execute the works in strict accordance with the terms and conditions of this Contract and to the satisfaction of Haya Water and shall comply with and adhere strictly to all instructions and directions on any matter regarding the services whether specified or not. Any materials, equipment and/or devices that have been installed by the Contractor without approved MAS shall be removed and/or replaced by the Contractor without any cost to the Company.
- Do not commence any work that falls under the category of additional services without written approval of Haya Water except as specifically provided for within this Contract.
- Familiarize with details of the work, verify dimensions in the field, and advise Haya Water and/or its authorized representative of any discrepancies before performing any work.

- Be responsible for the protection of the working and surrounding areas, facilities, utilities, and equipment.
- Protect electrical and mechanical services and utilities. In case the removal of existing utilities and pavement is specified or indicated, the contractor shall provide approved barricades, temporary covering of exposed areas, and temporary services or connections for electrical and mechanical utilities.
- Any equipment, materials or utilities that have been damaged by the Contractor during the execution of this contract shall be repaired or replaced as instructed by Haya Water and will be at Contractor's cost.
- Ensure that no elements determined to be unstable are left unsupported and place and secure bracing, shoring, or lateral supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.
- Do not interrupt existing utilities serving occupied or used facilities, except when authorized in writing by Haya Water and/or its authorized representative and then only after temporary utility services have been approved and provided.
- Remove debris and rubbish from the site and transport them in a manner that prevents spillage on streets or adjacent areas in accordance with the local regulations of hauling and disposal.
- Completion of Work Certificate shall only be signed upon completion of the scope of works, which include testing, if required, specified under this contract
- The Contractor shall comply with Haya water technical standards and in case of new proposed standard, material or whatsoever out of Haya technical standard shall be identified by the contractor and shall be submitted to Haya water for approval with justification.
- Prior to tendering, evaluate the actual requirements to carry out the specified works and other relevant details.
- Employ skilled employees and provide them whatever necessary PPEs during the course of work.
- Fully comply with the Labor Laws of the Sultanate of Oman in respect of the staff and workers to be employed under this Contract.
- The Contractor shall be responsible for Compliance with all the requirements of the HSE Department.