

| Sr. No. | Description | | Qty. |
|---|---|--|------|
| 01. | DMW Circulation Pump for TMO | | 01 |
| | Stages | 01 | |
| | Flow Rate | 17 m ³ /hr. | |
| | Developed Head | 30 m | |
| | Working Fluid | DMW | |
| | NPSHa | 5 m | |
| | Location | Indoor | |
| | Design Temperature | 66 °C | |
| | Design Pressure | 1.1 MPa | |
| | Discharge Pressure | 0.6 MPa | |
| | Differential Pressure | 0.3 MPa | |
| | Operating Pressure | 0.4 - 0.7 MPa | |
| | Operating Temperature | 25 - 30 °C | |
| | Suction Line | ~ DN 50 | |
| | Discharge Line | ~ DN 50 | |
| | Motor Data | | |
| | Motor Type: | VFD Controlled (Compatible with Pump Model) | |
| | Phase / Voltage / Frequency | 3 ph / 400V / 50 Hz | |
| | Orientation | Horizontal | |
| | Motor type/Connection | 3 phase/DOL | |
| | Type of Starting | Direct Online | |
| | Permissible Phase Unbalance in Supply Voltage | <5% | |
| | Enclosure and Degree of Protection | IP-65 | |
| | Material of Construction | | |
| | Casing | SS-316 L | |
| | Impeller | SS-316 L | |
| Pump Shaft | SS-316 L (May be of Duplex Steel) | | |
| Sleeves | SS-316 L | | |
| Motor Body | SS-304 | | |
| All wetted parts | SS-304/higher grades | | |
| 02. | VFD Controller | | 01 |
| 03 | Terms and conditions – documentation required | | |
| i. To be designed and manufactured according to ISO 5199 | | vii. Pump and motor data sheet. | |
| ii. Certificate of Origin. | | viii. Instrumentation details. | |
| iii. 3.1 Certificate of hydrostatic pressure test and pump material tests for pressure retaining parts and main components. | | ix. QCP | |
| iv. Pump characteristic curves. | | x. Electrical test (type and routine procedure) | |
| v. General arrangement drawings. | | xi. Dynamic balance test procedure and report | |
| vi. Standard QA certificate should be provided. | | xii. Hydraulic performance test 3.1 B according to ISO 9906 class 2B | |
| 04 | Inspection | Pre-shipment inspection & performance testing as per above quoted standards, noise level monitoring along-with inspection of QCP documents | |
| 05. | Spares | 05 Years (included) | |
| 06 | Make | Preferably European/ American/Japanese | |