

| No.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (Nos) |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1.    | <b>Diaphragm Metering Pump</b><br>Type: Reciprocating (Diaphragm Type),<br>Diaphragm Material: PTFE, All other wetted parts: SS316,<br>Flow Rate: 0-300 Liter/hr (Manually adjustable), Accuracy: $\pm 2\%$ , Acidic Environment, Inlet/Outlet Connection Dia: 25mm,<br>Discharge Pressure: 3 bar,<br>Power: 380/440 VAC, 50Hz,<br><b>Make: Sera/Seko or Equivalent</b>                                                                                                                                                                                                                                                                                                                                               | 03    |
| 2.    | <b>Spare of Pump</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |
| (i)   | Diaphragm (PTFE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 06    |
| (ii)  | SS Check Valves (Suction & Discharge) Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 03    |
| 3.    | <b>Diaphragm Metering Pumps with Actuator</b><br>Type: Reciprocating (Diaphragm Type)<br>Flow Rate: 0-2000 Liter/hr (by adjusting stroke length through manual knob and motor speed through frequency inverter)<br>Inlet/Outlet Connection Dia: 40mm,<br>Discharge Pressure: 3 bar,<br>Diaphragm Material: PTFE, All other wetted parts: SS304,<br>Input signal: 4-20mA for flow regulation through DCS<br>Feedback Signal: 4-20mA, Accuracy: $\pm 20\%$ ,<br>Flow Indication: Local (on backlit LCD) & Remote (4-20mA)<br>Power: 380/440 VAC, 50 Hz, <b>Make: Imported</b><br><b>Note:</b> Pump should contain force cooling fan for operation through frequency inverter, cooling fan motor should be 220 VAC, 50Hz | 08    |
| 4.    | <b>Spares</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
| (i)   | Motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 04    |
| (ii)  | Diaphragm (PTFE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30    |
| (iii) | Head (SS-304)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 04    |
| (iv)  | SS Check Valves (Suction + Discharge complete set)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 08    |
| (v)   | SS-304 Balls for Check Valves (compatible with item #2(iv))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100   |