

SPECIFICATION OF SIMPLEX WATER FILTER

Item: Supply of Simplex filters

- 1. Purpose:** Simplex Filter is required to install at discharge of water pump to refine water up to maximum 80 micron particle size in outlet. Filter outlet water shall be used in hydraulic press at forge shop.
- 2. Flowing Water Quality:**
 - 2.1. Medium: Water having traces of oil.
 - 2.2. Oil Content: Up to 2mg/L
 - 2.3. TDS: Up to 400mg/L
 - 2.4. TSS: Up to 40 mg/L
- 3. Capacity and other Technical Requirements:**
 - 3.1. Filter Element Size: 80 micron or lower
 - 3.2. Flow Rate: 100KL/hr
 - 3.3. Line Pressure: 10 bar (Maximum).
 - 3.4. Oil Filtration: Not required.
 - 3.5. Filter shall have differential pressure indicator.
 - 3.6. Filter element shall be reusable and washable type.
 - 3.7. Filter shall have easy element removing flange type arrangement for cleaning purpose.
 - 3.8. Filter shall be flange type connection at both inlet and outlet side and supplied with end flanges having neck for welding, gaskets, fasteners including nuts, bolts and washers etc.
 - 3.9. Inlet and outlet connection should be of 4" size at both inlet and outlet.
 - 3.10. Filter shall have equipped with drain and vent line with valves.
 - 3.11. Filter casing, mounting brackets, supporting bars etc. should be made up of non-corrosive material.
 - 3.12. Complete setup must be suitable for Outdoor Operation.
 - 3.13. Material of construction shall be SS304 or higher grade.
- 4. Installation/commissioning:** The supplier shall provide Installation/erection and commissioning guidelines for filter and shall arrange to demonstrate the performance of the filter and its accessories ensuring conformance to complete specifications and performance parameters.
- 5. Operation, Maintenance & Spares:** The supplier shall provide one set of spare filter element for each filter and provide budgetary offer separately for recommended spares and consumables required for 3 years operations of the filter and the offer should be valid for at least 12 months from the date of commissioning.
- 6. Guarantee:** The supplier shall furnish guarantee against any design /manufacturing defect and performance guarantee of the filters as per quoted performance parameters for a period of 18 months from the date of dispatch or 12 months from the date of commissioning whichever is later.
- 7. Document and Literature:** Four copies of descriptive leaflets, technical literature, operation and maintenance manual, schematic diagrams, general arrangement shall be supplied along with the materials. One set of the above is to be furnished along with the offer.
- 8. Packing and Dispatch:** The equipment /accessories shall be suitably packed.