

SPECIFICATION FOR THE SUPPLY OF CENTRIFUGAL PUMPS.

1) SCOPE OF SUPPLY:

The scope of supply shall be 2 Nos sea water pumps as described in the following paragraphs. The quotation shall include for secure packing, transporting and delivery of the units F.O.R Visakhapatnam.

2) DESCRIPTION:

The pumps supplied shall be located in the pump houses below the ground level for handling sea water. The suction will be connected directly to sea through 8" M.S pipe line with 2 Nos. sluice valves and the delivery will be connected to 8" M.S pipe line.

The details of the pump required are as follows.

Specification:

- Location : 6.8 M below sea level.
- Discharge : 250 M³ / minute at 70 mtr head
- Max. Head : 70 mtr
- Pump Design : Horizontal Back Pull out Type
- Medium of Flow : Sea water.
- Pump Suction : 8" Diameter
- Pump Delivery : 6" Diameter
- Permissible Size of Solids : 10mm

Materials:

- Pump Casing : Alloy Stainless Steel (CF8M).
- Shaft : Stainless steel (SS 316 or EN 8)
- Impeller & Sleeves : Alloy Stainless steel or CF8M

Seal Arrangement:

Design should be accommodate to either a soft packing gland seal or a Mechanical seal, without re-machining of the housing. The soft packing should be equipped with a Lantern Ring.

*Amr
Sylhree (SR-Mach)*

Electrical:

Motor: 3 Phase, 415 V, 50Hz, Squirrel Cage Induction Motor.

Duty : Continuous Type S1, IP: 55, INS F.

Starter: Suitable DOL Starter with 30mtrs of Cable.

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The pump supplied shall be designed to operate at 1450 rpm, to give the conditions enumerated above, i.e 250 M³ / minute, discharge at 70M head. Supply of motor and starter be included in the scope of supply. The pump supplied shall be complete in all respects with the standard coupling flange (pin & bush type) with counter flange, so as to put into operation immediately after receipt.

3. The supplier has to indicate the following details in the quotation.
 - 3.1 Horse power required to drive the pump.
 - 3.2 The details of coupling being supplied
 - 3.3. Material Specification of all assembly parts of the pump.

4. The supplier has to supply the following along with the pump unit.
 - 4.1 Operation and maintenance manuals and test certificates of the pumps supplied and also for stainless Steel spare parts.
 - 4.2 Spare parts list of the pump.

5. The following list of spares shall be supplied along with the pumps.
 - 5.1 One spare shaft.
 - 5.2 One set of bearings.
 - 5.3 Two set of bushes and glands.
 - 5.4 One spare impeller and wearing rings.
 - 5.5 Two sets of coupling bushes and pins.
 - 5.6 Four sets of Gland seals or Mechanical Seals.
 - 5.7 Availability of local dealer for OEM Spares if necessary.

6. The pumps supplied shall be guarantee for performance and manufacturing defects for one year from the date of receipt of the materials.

Asst
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