

Section 7. Technical Specifications

COMPLETE TROLLEY MOUNTED CENTRIFUGAL PUMP COUPLED WITH ELECTRIC MOTOR (02 Sets)

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| 1.0 | PUMP | : 02 (Two) sets. |
| 1.1 | Type | : Centrifugal Pump |
| 1.2 | Capacity/ Flow Rate | : 40 m ³ /hr |
| 1.3 | Discharge Pressure | : 06 Bars (Abs.) |
| 1.4 | Suction Lift | : 6.0 Meter |
| 1.5 | Liquid Handled | : Oily Water (Mostly oil and water mixer) |
| 1.6 | Viscosity | : Up to 500 Cst. (Max ^m) |
| 1.7 | Pumping Temperature (P.T) | : 20 °C (Min), 40°C (Max ^m) |
| 1.8 | Shaft Seal | : Soft Packing |
| 1.9 | Location | : Outdoor |
| 1.10 | Duty | : Continuous |
| 1.11 | Others | : |
- 1.11.1 The pump shall be fitted with necessary valves, suction strainer and hose fittings.
- 1.11.2 The pump coupled with motor shall be mounted on a three wheel trolley (burst proof rubber).
- 2.0 Technical offer shall include:**
- 2.1 Detailed information including material of main component parts, pump selection chart, pump data sheet, Performance Curve, **Original Product Catalogue** etc.
- 2.2 Name of Manufacturer / country of origin of Pump & Motor.
- 2.3 Spare parts as per section 4.0 (to be supplied with the pump).
- 3.0 The successful bidder will have to provide:**
- 3.1 Operation and Maintenance Manual in English (two sets).
- 3.2 Certificate of conformity.
- 3.3 Certificate for country of origin.
- 3.4 Warranty certificate.
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| 4.0 | <u>SPARES :</u> | |
| | <u>Description</u> | <u>Quantity</u> |
| 4.1 | Shaft with locknut, washer & key | : 01 Set. |
| 4.2 | Impeller | : 01 Nos. |
| 4.3 | Shaft Sleeve | : 02 Nos. |
| 4.4 | All Seal/ O- Ring/ Gasket | : 06 Sets. |
| 4.5 | Casing wearing ring | : 02 Nos. |
| 4.6 | Impeller Wearing Ring | : 02 Nos. |



- 5.0 MOTOR** : **02 (Two) sets.**
- 5.1 Type : Squirrel Cage Induction
 - 5.2 Power (KW) : As required
 - 5.3 Speed (R P M) : As required
 - 5.4 Primary Supply : 380 V x 3PH x 50 HZ
 - 5.5 Insulation Class : F
 - 5.6 Degree of Protection (Explosion Proof) : EE x dII B T4
 - 5.7 Type of Protection : IP55
 - 5.8 Starting System : D.O.L (Direct-On-Line)
 - 5.9 Duty : Continuous
 - 5.10 Ambient Temperature : 40 °C max^m
 - 5.11 Earthing Terminal : The motor should be fitted with suitable earthing terminal.

6.0 The following information shall be provided on every documents:

- 6.1 The purchaser/customer's name (Eastern Refinery Limited, North patenga, Chittagong).
- 6.2 The purchaser's Order no.
- 6.3 The vendor's order and/ or serial no.

7.0 Warranty: 18 months after shipment covering defective materials or Workmanship.

