

Annexure-A

Vertical Centrifugal Sump Pump with motor & Accessories- 1 set

Duty : To pump water from Cable Trench near  
Compressor House to the Main drain

Capacity : 40 m<sup>3</sup>/hr

Discharge Head : 30 m

**MOC-**

Impeller & Wetted parts : CS

Shaft : EN-8

Base : Fabricated only

Motor : Bharat Bijlee/ Crompton Greaves/ Siemens/ ABB

Power rating : 440V (+/-5%), 3phase, 50Hz, AC Supply

pH of water : 7.0-8.5

Pedestal Length : 1.8 m

Strainer : Re-enforced moulded rubber preferred

- Pump with motor mounted on the fabricated MS frame with belt guard.
- V-groove pulley for pump & motor- 1 set each
- V-belt – 1 set
- Spares: 1 set spares each for casing, impeller and recommended motor.

  
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Enclosure- 1

The offer must contain the following details.

1. Material of construction of all the parts.
2. Weight of pump, structure and base separately.
3. Detailed constructional drawing/ sectional drawing of the pump, with the details of bearing fitted along with the leaflets.
4. G.A. drawing of pump & motor with dimensions.
5. Dimension of pump base and associated structure.
6. Characteristic curve containing rotor and stator specification, head, efficiency, power, NPSH etc.
7. All the pumps should be supplied with heavy duty bearing for continuous service.
8. Coupling shall preferably be coupling type of UNIQUE/ FENNER Make.
9. Base should be structurally fabricated. Cast base is not acceptable.
10. Bifurcation of price of pump, motor, base and accessories must be given because order may be placed for full set or part thereof. Taxes, duties, P&F charges should be mentioned clearly.
11. Offer must contain details of guarantee period of performance of the pump.
12. Bank guarantee of amount equivalent to 5% of the order value valid for performance guarantee period will have to be submitted before the release of full payment.
13. Offer without the aforesaid details will be rejected out rightly and no further communication will be entertained.

  
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|   |  |  |
|---|--|--|
| Pump model & type offered                 |  |  |
| Speed of the pump                         |  |  |
| Suction & Discharge (mm)                  |  |  |
| Type of drive                             |  |  |
| Type & make of coupling                   |  |  |
| Capacity offered (m <sup>3</sup> /hr)     |  |  |
| Head (m)                                  |  |  |
| NPSH required                             |  |  |
| BKW required                              |  |  |
| Motor offered with Make & Rating          |  |  |
| Impeller type and Diameter offered        |  |  |
| Full size of impeller offered             |  |  |
| *   |  |  |
| Drive end bearing number                  |  |  |
| Non Drive end bearing number              |  |  |
| Shaft diameter at impeller end            |  |  |
| Distance between NDE bearing and impeller |  |  |
| Distance between bearings (NDE & DE)      |  |  |
| Weight of bare pump (Kg)                  |  |  |
| Weight of structural base (Kg)            |  |  |
| Weight of motor (Kg)                      |  |  |
| Type of lubrication offered               |  |  |
| Material of construction                  |  |  |
| a) Casing                                 |  |  |
| b) Impeller                               |  |  |
| c) Shaft                                  |  |  |
| d) Shaft sleeve                           |  |  |
| Gland sealing arrangement                 |  |  |
| Efficiency of pump                        |  |  |
| No. of stages                             |  |  |

\*SKF bearing only

Pump flange shall be drilled as per ANSI 16.5


  
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