

## Annexure – I

### Vertical Sump pump with base, pulley & accessories- 4 Sets

**Duty** – Suitable to be installed in a pit of size 1 m long x 1 m wide x 1.1 m deep for pumping acidified slurry containing about 45% - 60% solids w/w (top particle size is minus 1 micron and fines content is about 60% minus 75 micron particles) and to discharge it to open atmosphere.

The vertical sump pump shall have: –

- 1) Cantilever shaft design with no submersible bearing.
- 2) Single piece shaft design
- 3) Non-clog impeller. (Semi open or open )
- 4) Other details:

Suction - : From pit  
Delivery : Open to atmosphere.

Capacity :  $25 \text{ m}^3 / \text{Hr.}$

TDH : 20 m.

Temp. : Ambient.

pH : 2.0-3.0.

5) MOC

Impeller : Rubber lined

Shaft : EN 8 with Rubber lined

Casing : Rubber lined

Back plate : Rubber lined

Strainer : Rubber lined

Pedastel : Rubber lined

Bearing housing and : C.I. grade 25  
Bearing cover

6) Pump pulley : PCD-180mm, Groove-B

Offer must contain required tech. details in **Format** enclosed with the enquiry as Annexure-II. Offer must also contain the details as per Annexure-III.

/ *2021*

## Annexure-II

### Format

The offer must be submitted in the given format

Pump model & type offered	-	
	-	
Capacity offered (m <sup>3</sup> /hr)		
Head Offered (m)	-	
Discharge (mm)	-	
Pump Pully size and type		
Type of drive (V belt driven) Yes/No	-	
BKW required	-	
Efficiency of pump		
Bearing No.	-	
Weight of bare pump (Kgs.)	-	
Type of lubrication offered	-	
Material of construction of pump		
a) Casing	-	
b) Impeller	-	
c) Shaft	-	
d) Strainer	-	
e) Back Plate		
f) Pedastal		
g) Bearing housing and cover		

Pump flange shall be drilled as per BS Table 10 D

100

### Annexure-III

The offer must contain the following details.

1. G.A. drawing of pump & motor with dimensions.
2. Dimension of pump base and associated structure.
3. Characteristics curve containing impeller size, type of impeller, head, efficiency, power etc.
4. All the pumps should be supplied with heavy duty bearing for continuous service.

