

## ANNEXURE

### **Dilute flocculent solution metering pump (Progressive cavity type) for Acidic Belt Filter with motor, variable speed A.C. drive, base, etc.**

Duty	-	To pump dilute flocculent solution from tank to Acidic Belt Filter at metered rate.
Capacity	-	10 m <sup>3</sup> / hr.
T. D. H	-	25 meter
Temperature	-	Ambient
Viscosity	-	50 cp
Shaft sealing	-	Gland packed
Specific gravity	-	1.0
Suction	-	Flooded from tank (0.3 m static head )
Material of construction	-	Nitrile rubber lined on SS 316 stator, Hard chrome plated SS 316 rotor, other wetted parts in SS 316.

#### **NOTE -**

1. V belt drive will be preferred.
2. Flow variation from 6000 to 10000 LPH is to be done by varying the speed of the motor / pump by variable frequency A. C. Drive.
3. Rating of VFD shall be 1.5 times higher than offered motor rating.
4. Make & details of VFD, Characteristics curve of pump, constructional drawing & MOC of various parts of pump, Weight of pump, base, motor separately must be given for evaluating the offer.
5. The VFD shall be suitable to accept 4 – 20 mA current and not 0 – 20 mA.
6. Offer must contain bifurcation of price of pump, motor, VFD, etc.
7. The equipment must be guaranteed against any kind of defect /poor workmanship for 18 months from the date of receipt or 12 months from the date of installation whichever is earlier.
- 8. Preferred motor shall be: 2.2 KW & VFD: 3.7 KW**
- 9. Make of motor:** CG, Bharat Bijlee, Siemens, Kirloskar only
- 10. Make of VFD:** Danfoss, Siemens, Kirloskar, Allen Bradley, Schneider only.