

**Horizontal Centrifugal cold water supply pump to acidic vacuum pump**  
**With motor, base & accessories**

Duty : To supply cold water from cold water sump of cooling tower to vacuum pump.

Capacity : 150 m<sup>3</sup>/hr.

Head : 20 meters.

pH : 6.5-7.5

Temperature : 35-40 deg. C

Suction : Flooded from cold water sump.

Delivery : To vacuum pump.

Gland Arrangement : Centrifugal sealing with dry gland.

Speed : 1440 rpm only.

Impeller : Semi-open/open only.

Existing motor rating : 15 KW X 1440 RPM

M.O.C.: Casing: Grey C.I. (grade to be specified), Impellor: Grey C.I. (grade to be specified)

Sleeve: Chrome steel, Shaft: Steel IS 5517 45 C8

Pump design: Back pull out type end suction & top discharge only.

Note:

- Pump must be warranted against any kind of manufacturing defects or poor workmanship for one year from the date of commissioning or 18 months from the date of receipt, whichever is earlier.
- Warranty certificate of the pump must be attached with the dispatch documents
- **Motor rating shall be kept same as mentioned above.**

# ANEXURE - B

The offer must be submitted in the given format

Pump model & type offered	-	
Speed of the pump	-	
Suction & discharge (mm)		
Type of drive (direct coupled)	-	
Type & make of coupling	-	Fenner only
Capacity offered (m <sup>3</sup> /hr)	-	
Head Offered (m)	-	
NPSH required	-	
BKW required	-	
Motor offered make & rating	-	
Impeller type & diameter offered	-	
Full size of impeller offered	-	
Drive end bearing No.	-	
Non drive end bearing No.	-	
Shaft diameter at impeller end	-	
Distance between NDE bearing and impeller	-	
Distance between bearings (NDE & DE)	-	
Weight of bare pump (Kgs.)	-	
Weight of structural base (Kgs.)	-	
Weight of motor (Kgs.)	-	
Type of lubrication offered	-	
Material of construction of		
a) Casing	-	
b) Impeller	-	
c) shaft	-	
d) shaft sleeve	-	
Gland sealing arrangement / mechanical seal	-	
Pressure & flow of gland sealing water required	-	
Efficiency of pump		

(P.T.O.)

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**Offer must contain the following details.**

1. Material of construction of parts clearly.
2. Weight of pump, structure & base separately.
3. Detail constructional drawing/ sectional drawing of pump with details of bearing fitted along with leaflets.
4. G.A. drawing of pumps & motor with dimensions.
5. Dimension of pump base and associated structure.
6. Characteristics curve containing impeller size, type of impeller, head, efficiency, power, NPSH(R) etc.
7. The pump should be supplied with heavy duty bearing for continuous service.
8. Base should be structurally fabricated. Cast base is not acceptable.
9. Bifurcation of price of pump, motor, base & accessories must be given because order may be placed for full set or part thereof. Taxes, duties, P & F charges should be mentioned clearly.
10. Offer without the aforesaid details may be rejected outrightly and no further communication will be entertained.
11. Pump must be guaranteed against any kind of manufacturing defects or poor workmanship for one year from the date of commissioning or 18 months from the date of receipt, whichever is earlier.
12. Guarantee certificate of the pump must be attached with the dispatch documents.