

HORIZONTAL CENTRIFUGAL PUMPS

Sl. No.	Description	H.V.W. Spray Pumps	Hydrant Pumps	Jockey pumps
1.0	Number of units	*Two (2) (One Diesel engine driven & One motor driven)	One (1)	One (1)
2.0	Type	Horizontal centrifugal	Horizontal centrifugal	Horizontal centrifugal
3.0	Location	Indoor	Indoor	Indoor
4.0	Service	----- As per TAC regulation -----		
5.0	Liquid to be pumped	----- Raw water -----		
6.0	Capacity	273 M ³ /hr	96 M ³ /hr	10.8 M ³ /hr
7.0	Total dynamic head	70 MWC	70 MWC	80 MWC
8.0	Hydrostatic test pressure	- As per Specifications -		
9.0	Suction condition/ temp.	----- Flooded/36°C -----		
10.0	Nature of BHP curve	- Preferably non-over loading type -		
11.0	Type of bearing	- As per manufacturing standard -		
12.0	Sealing/cooling/ lubrication	Graphited asbestos packing/self liquid cooling/lubrication		
13.0	Material of Construction			
	a) Casing	-----	CI,IS:210 ----- FG:260	
	b) Impeller	-----	Leaded Gun ----- metal to IS:318 Grade-II	

*Both the HVW pumps should be of same model and their components interchangeable.

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c)	Wearing ring	-----	-----	-----
d)	Base plate	-----	-----	-----
e)	Shaft	-----	-----	-----
f)	Shaft sleeve	-----	-----	-----
g)	Stuffing box	-----	-----	-----
h)	Gland	-----	-----	-----
i)	Gland packing	-----	-----	-----
14.0	Drive Motor Particulars			
a)	Type	AC Squirrel cage Induction Motor		
b)	Voltage, Phase, frequency.	As per Section E-1		
c)	Enclosure	TEFC - IP - 54		
d)	Insulation Class	Class F with temp. rise limited to Class B		
e)	Starter	Direct on-line for Hydrant & Jockey pump and Star-Delta starter for HVW Spray Pump.		
15.0	Accessories to be provided with each pump by the supplier	Common base plate, companion flanges, drain plug, vent, priming connection, coupling guard, eye bolts, lifting lugs etc.		