

Annexure - I**Technical Details for Butterfly Valves**

Enq. It. No.	BFV Size	TAG Nos	Fluid to be handled	Design Pressure	Test Pressure (Body)	Test Pressure (Door & Seal)	Design Temp	Normal Flow	Max Flow	Operation*	Operation Time	End Connection	Connecting Pipe	Quantity
	NB			Kg/sqcm	Kg/sqcm	Kg/sqcm	Deg. C	m ³ /hr	m ³ /hr	H/E/M/M#	Seconds		OD X TK - mm x mm	Nos.
1	2300	CW-1 & 2	River water	5	10	5.5	60	35239	45811	H	20-30	Flanged	2336 X 18	2

* H/E/M/M# -Hydraulically Operated / Electrically Operated / Manually Operated / Manually operated with Limit switches

Notes:-

1) Valve Open / Close time = 20 to 30 seconds (Actual timings shall be confirmed after surge study).

Valve closing time = First 90% closing shall be within 67% of total closing time. Rest 10% closing (i.e. final closing) shall be within rest 33% of total closing time.

2) Limit switches LS-1, LS-2, LS-3, LS-4 having contact rating of 240 V AC, 5 AMP or 220 V DC, 0.5 AMP of reputed make.

Heavy limit switches shall be of angular roller lever type and suitable for 600V AC / 240V DC.

3) For location of Power pack module, Refer Layout drawing attached as Annexure-II