GOVERNENT OF MAHARASHTRA
Water Resource Department
Mechanical Organization

Rates for the supply of valves used in water lifting schemes are invited from manufacturers for estimate purpose. Please submit the rate to The Executive Engineer, Mechanical Division, Tarabai Park, Kolhapur 416003, Maharashtra within 10 days from date of publishing. The detail specification of valves are as below

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
1	Providing, supplying & erecting of approved make CI D/F reflux valves (non-return valves) of following dia with technical specifications as below i. Design, manfacturing & testing standard IS 5312 Part 1 Including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete. Reflux valves as per I.S.5312 Part I (1984)				
a)	**Without by pass arrangement -PN -1**				
i)	50 mm	No			
ii)	65 mm	No			
iii)	80 mm	No			
iv)	100 mm	No			
v)	125 mm	No			
vi)	150 mm	No			
vii)	200 mm	No			
viii)	250 mm	No			
ix)	300 mm	No			
x)	350 mm	No			
xi)	400 mm	No			
xii)	450 mm	No			
xiii)	500 mm	No			
xiv)	600 mm	No			
b)	**With by pass arrangement - PN-1**				
i)	80 mm	No			
ii)	100 mm	No			
iii)	125 mm	No			
iv)	150 mm	No			
v)	200 mm	No			
vi)	250 mm	No			
vii)	300 mm	No			
viii)	350 mm	No			
ix)	400 mm	No			
x)	450 mm	No			
xi)	500 mm	No			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
xii)	600 mm	No			
c)	**Without by pass arrangement - PN -1.6**				
i)	50 mm	No			
ii)	65 mm	No			
iii)	80 mm	No			
iv)	100 mm	No			
v)	125 mm	No			
vi)	150 mm	No			
vii)	200 mm	No			
viii)	250 mm	No			
ix)	300 mm	No			
x)	350 mm	No			
xi)	400 mm	No			
xii)	450 mm	No			
xiii)	500 mm	No			
xiv)	600 mm	No			
d)	**With by pass arrangement - PN-1.6**				
i)	50 mm	No			
ii)	65 mm	No			
iii)	80 mm	No			
iv)	100 mm	No			
v)	125 mm	No			
vi)	150 mm	No			
vii)	200 mm	No			
viii)	250 mm	No			
ix)	300 mm	No			
x)	350 mm	No			
xi)	400 mm	No			
xii)	450 mm	No			
xiii)	500 mm	No			
xiv)	600 mm	No			
2	Providing, supplying & erecting of approved make multi door CI D/F reflux valves (non-return valves) of following dia with technical specifications as below i. Design, manfacturing & testing standard IS 5312 Part 2 Including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete. Reflux valves as per I.S.5312 Part I (1984)				
a)	**Without by pass arrangement -PN -1**				
i)	700 mm	No			
ii)	750 mm	No			
iii)	800 mm	No			
iv)	900 mm	No			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
v)	1000 mm	No			
vi)	1100 mm	No			
vii)	1200 mm	No			
b)	**With by pass arrangement -PN -1**				
i)	700 mm	No			
ii)	750 mm	No			
iii)	800 mm	No			
iv)	900 mm	No			
v)	1000 mm	No			
vi)	1100 mm	No			
vii)	1200 mm	No			
c)	**Without by pass arrangement -PN -1.6**				
i)	700 mm	No			
ii)	750 mm	No			
iii)	800 mm	No			
iv)	900 mm	No			
v)	1000 mm	No			
vi)	1100 mm	No			
vii)	1200 mm	No			
d)	**With by pass arrangement -PN -1.6**				
i)	700 mm	No			
ii)	750 mm	No			
iii)	800 mm	No			
iv)	900 mm	No			
v)	1000 mm	No			
vi)	1100 mm	No			
vii)	1200 mm	No			
3	Providing, supplying & erecting of double flange sluice valve confirming for IS-14846 including worm gear arrangements as per test pressure stainless steel spindle, caps Including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.				
a)	**Sluice valves - PN -1**				
i)	50 mm	No			
ii)	65 mm	No			
iii)	80 mm	No			
iv)	100 mm	No			
v)	125 mm	No			
vi)	150 mm	No			
vii)	200 mm	No			
viii)	250 mm	No			
ix)	300 mm	No			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
x)	350 mm	No			
xi)	400 mm	No			
xii)	450 mm	No			
xiii)	500 mm	No			
xiv)	600 mm	No			
xv)	700 mm	No			
xvi)	750 mm	No			
xvii)	800 mm	No			
xviii)	900 mm	No			
xix)	1000 mm	No			
xx)	1100 mm	No			
xxi)	1200 mm	No			
b)	**Sluice valve - PN - 1.6**				
i)	50 mm	No			
ii)	65 mm	No			
iii)	80 mm	No			
iv)	100 mm	No			
v)	125 mm	No			
vi)	150 mm	No			
vii)	200 mm	No			
viii)	250 mm	No			
ix)	300 mm	No			
x)	350 mm	No			
xi)	400 mm	No			
xii)	450 mm	No			
xiii)	500 mm	No			
xiv)	600 mm	No			
xv)	700 mm	No			
xvi)	750 mm	No			
xvii)	800 mm	No			
xviii)	900 mm	No			
xix)	1000 mm	No			
xx)	1100 mm	No			
xxi)	1200 mm	No			
4	Providing, supplying & erecting of double flanged short body pattern type manually operated Butterfly Valve confirming in to IS-13095-1991, Synthetic rubber faced ring secured on disc by retaining ring with stainless steel screw stub shaft of stainless steel riding in teflon bearing including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.				

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
a)	**Butterfly valves - PN -1**				
iii)	80 mm	No			
iv)	100 mm	No			
v)	125 mm	No			
vi)	150 mm	No			
vii)	200 mm	No			
viii)	250 mm	No			
ix)	300 mm	No			
x)	350 mm	No			
xi)	400 mm	No			
xii)	450 mm	No			
xiii)	500 mm	No			
xiv)	600 mm	No			
xv)	700 mm	No			
xvi)	750 mm	No			
xvii)	800 mm	No			
xviii)	900 mm	No			
xix)	1000 mm	No			
xx)	1100 mm	No			
xxi)	1200 mm	No			
b)	**Butterfly valves - PN -1.6**				
iii)	80 mm	No			
iv)	100 mm	No			
v)	125 mm	No			
vi)	150 mm	No			
vii)	200 mm	No			
viii)	250 mm	No			
ix)	300 mm	No			
x)	350 mm	No			
xi)	400 mm	No			
xii)	450 mm	No			
xiii)	500 mm	No			
xiv)	600 mm	No			
xv)	700 mm	No			
xvi)	750 mm	No			
xvii)	800 mm	No			
xviii)	900 mm	No			
xix)	1000 mm	No			
xx)	1100 mm	No			
xxi)	1200 mm	No			
5	Providing, supplying & erecting of approved make Air Valves confirming of IS -14845 - 2000 of following diameters including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.				
a)	**Air Valve Single Ball Flanged / Screwed Type - PN -1**				
i)	12/15 mm	No			
ii)	20 mm	No			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
iii)	25 mm	No			
iv)	32 mm	No			
v)	40 mm	No			
vi)	50 mm	No			
b)	**Air Valve Single Ball Flanged /Screwed Type -PN -1.6**				
i)	12/15 mm	No			
ii)	20 mm	No			
iii)	25 mm	No			
iv)	32 mm	No			
v)	40 mm	No			
vi)	50 mm	No			
6	Providing, supplying & erecting of Air Valves confirming IS-10845 and standard specifications double orifice type combined with screw down isolating valve, small orifice elastic ball resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.				
a)	**Air valve Double Ball Flanged Type - PN -1**				
i)	50 mm	No			
ii)	65 mm	No			
iii)	80 mm	No			
b)	**Air valve Double Ball Flanged Type - PN -1.6**				
i)	50 mm	No			
ii)	65 mm	No			
iii)	80 mm	No			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
7	Providing, supplying & erecting of Air Valves confirming IS-14845-2000 and standard specifications double orifice type combined with isolating sluice valve, mounted in horzontal position and operated by wheel gearing, small orifice elastic ball resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.				
a)	**Double Ball Flanged Type - PN -1.0**				
i)	100 mm	No			
ii)	150 mm	No			
iii)	200 mm	No			
b)	**Double Ball Flanged Type - PN -1.6**				
i)	100 mm	No			
ii)	150 mm	No			
iii)	200 mm	No			
8	Providing, supplying & erecting of Kinetic Double Orifice type Air Valves confirming to IS 14845 & as per standard specifications combined with screw down isolating valve, small orifice elastic ball resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.				
a)	**Kinetic Air Valve Flanged Type P-1**				
i)	40 mm	No			
ii)	50 mm	No			
iii)	80 mm	No			
iv)	100 mm	No			
v)	150 mm	No			
vi)	200 mm	No			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
b)	**Kinetic Air Valve Flanged Type P-1.6**				
i)	40 mm	No			
ii)	50 mm	No			
iii)	80 mm	No			
iv)	100 mm	No			
v)	150 mm	No			
vi)	200 mm	No			
13	Providing and supplying C.I. D/F angle type spring loaded pressure relief valves of approved make including transportation, inspection, unloding, loading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.				
a)	**Type PN-1**				
i)	25 mm	No			
ii)	40 mm	No			
iii)	50 mm	No			
iv)	80 mm	No			
v)	100 mm	No			
vi)	125 mm	No			
vii)	150 mm	No			
viii)	200 mm	No			
ix)	250 mm	No			
x)	300 mm	No			
b)	**Type PN-1.6**				
i)	25 mm	No			
ii)	40 mm	No			
iii)	50 mm	No			
iv)	80 mm	No			
v)	100 mm	No			
vi)	125 mm	No			
vii)	150 mm	No			
viii)	200 mm	No			
ix)	250 mm	No			
x)	300 mm	No			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
14	**Electric Valve Actuator for non rising spindle type sluice valve, PN 1 & PN 1.6 rating**				
	Providing, erecting electric Valve actuators totally enclosed, weather-proof and dust proof construction with IP-67, protection class suitable for installation in any position without lubrication, leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically disengage on restoration of power to motor and with 10 watt single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with S.S. flap and operated with gear driven cams and of rating 250 Volt, 5 Amp, AC/DC, torque switch dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2, insulation class "F" and temp rise restricted to class "B" with IP - 67 protection class suitable for DOL starting and with three thermostat and 30% over load margin.				
	The torque rating of reduction gear box shall be at least 1.5 times max. torque required for opening and closing of valve with integral starter controls having four limit switches 1 for OPEN, 1 for CLOSE & 2 Nos. for intermediate positions for interlocking etc complete.				
i)	50 mm	No.			
ii)	65mm	No.			
iii)	80 mm	No.			
iv)	100 mm	No.			
v)	125 mm	No.			
vi)	150 mm	No.			
vii)	200 mm	No.			
viii)	250 mm	No.			
ix)	300 mm	No.			
x)	350 mm	No.			
xi)	400 mm	No.			
xii)	450 mm	No.			
xiii)	500 mm	No.			
xiv)	600 mm	No.			
xv)	700 mm	No.			
xvi)	750 mm	No.			
xvii)	800 mm	No.			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
xviii)	900 mm	No.			
xix)	1000 mm	No.			
xx)	1100 mm	No.			
xxi)	1200 mm	No.			
15	**Dismantling Joints**				
	Providing, erecting and commissioning M.S. Dismantling joint as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange) should not be less than 75% of dia.				
	PN 1.0				
i)	200 mm	No.			
ii)	250 mm	No.			
iii)	300 mm	No.			
iv)	350 mm	No.			
v)	400 mm	No.			
vi)	450 mm	No.			
vii)	500 mm	No.			
viii)	600 mm	No.			
ix)	700 mm	No.			
x)	750 mm	No.			
xi)	800 mm	No.			
xii)	900 mm	No.			
xiii)	1000 mm	No.			
xiv)	1100 mm	No.			
xv)	1200 mm	No.			
	PN 1.6				
i)	200 mm	No.			
ii)	250 mm	No.			
iii)	300 mm	No.			
iv)	350 mm	No.			
v)	400 mm	No.			
vi)	450 mm	No.			
vii)	500 mm	No.			
viii)	600 mm	No.			
ix)	700 mm	No.			
x)	750 mm	No.			
xi)	800 mm	No.			
xii)	900 mm	No.			
xiii)	1000 mm	No.			
xiv)	1100 mm	No.			
xv)	1200 mm	No.			

Sr No	Item Description	Unit	Supply Rate in Rs.	Eection Rate (Including jointing material) Rs.	Remark
15	**Mettalic Expansion Joints** Providing, erecting and commissioning M.S. Mettalic Expansion Joints as per requirement and Department's approved drawing and specifications, including machining and rubber rings and suitable for 16 kg/cm2 working pressure with required flanges of suitable size with nut bolts etc complete. The joint should have through long bolts so that during normal working pressure there should be no sliding movement of sliding flanges. L.O.F. (length over flange) should not be less than 75% of dia.				
	PN 1.0				
i)	200 mm	No.			
ii)	250 mm	No.			
iii)	300 mm	No.			
iv)	350 mm	No.			
v)	400 mm	No.			
vi)	450 mm	No.			
vii)	500 mm	No.			
viii)	600 mm	No.			
ix)	700 mm	No.			
x)	750 mm	No.			
xi)	800 mm	No.			
xii)	900 mm	No.			
xiii)	1000 mm	No.			
xiv)	1100 mm	No.			
xv)	1200 mm	No.			
	PN 1.6				
i)	200 mm	No.			
ii)	250 mm	No.			
iii)	300 mm	No.			
iv)	350 mm	No.			
v)	400 mm	No.			
vi)	450 mm	No.			
vii)	500 mm	No.			
viii)	600 mm	No.			
ix)	700 mm	No.			
x)	750 mm	No.			
xi)	800 mm	No.			
xii)	900 mm	No.			
xiii)	1000 mm	No.			
xiv)	1100 mm	No.			
xv)	1200 mm	No.			