

PRICE FORMAT FOR RATE CONTRACT OF BALL VALVES

ANNEXURE-1

														MAIN VALVES (EXCLUDING COMMISSIONING SPARES)										COMMISSIONING SPARES									
SL. NO.	TYPE OF VALVE	SIZE (NB)	OPERATION	DESIGN		SERVICE	RATING, DESIGN & TESTING CODE	BODY MATERIAL	TRIM MATERIAL	END CONN	SPECIAL FEATURES	MATCHING PIPE OD x THK		MAIN VALVES QTY WITHOUT COMMISSIONING SPARES	TOTAL EX-WORKS PRICE OF MAIN VALVES (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF BALL VALVES GIVEN AT COLUMN 18 ROW 25 (VALUE ENTERED AS X)	UNIT PRICE EX-WORKS (DULY PACKED) (Rs)	TOTAL PRICE EX-WORKS (DULY PACKED) (Rs)	ED @ % (Including cess) (Rs.)	CST @ % (Rs) against from C and form E	FREIGHT CHARGES @ % of Ex-work (Including Service Tax) (Rs.) (r)	TOTAL F.O.R. SITE PRICE FOR VALVES (Rs.)	COMMISSIONING SPARES(SETS)			TOTAL EX-WORKS PRICE OF COMMISSIONING SPARES OF MAIN VALVES (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF BALL VALVES GIVEN AT COLUMN 18 ROW 25 (VALUE ENTERED AS X)	UNIT PRICE EX-WORKS (DULY PACKED) FOR COMMISSIONING SPARES (Rs)	TOTAL PRICE EX-WORKS (DULY PACKED) (Rs) FOR COMMISSIONING SPARES	ED @ % (Including cess) (Rs.)	CST @ % (Rs) against from C and form E	FREIGHT CHARGES @ % of Ex-work (Including Service Tax) (Rs.) (r)	TOTAL F.O.R. SITE PRICE (Rs.) FOR SPARES		
				PRESSURE KG/CM2(G)	TEMP. (DEG ° C)							BODY SEAL	STEM WASHER									STEM SEAL											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17 (=Column 18/Column 15)	18 (=COLUMN 18 ROW 25*COLUMN 16) i.e. X*COLUMN 16	19	20	21	22	23			24	25 (=Column 26/ Column 23)	26 (=COLUMN 18 ROW 25*COLUMN 24) i.e. X*COLUMN 24	27	28	29	30		
1	Ball	15	MAN	8	50	IA & SA SYSTEMS	CL 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316		SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	21.3	2.8	998	8.703	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	100	100	100	0.075	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	
2	Ball	25	MAN	8	50	IA & SA SYSTEMS	CL 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316		SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	33.4	3.4	670	10.176	Derived	Derived	%To be quoted	%To be quoted		Derived	69	69	69	0.095	Derived	Derived	%To be quoted	%To be quoted		Derived	
3	Ball	40	MAN	8	50	IA & SA SYSTEMS	CL 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316		SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	48.3	3.68	56	2.177	Derived	Derived	%To be quoted	%To be quoted		Derived	7	7	7	0.025	Derived	Derived	%To be quoted	%To be quoted		Derived	
4	Ball	50	MAN	8	50	IA & SA SYSTEMS	CL 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316		SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	60.3	3.91	230	10.826	Derived	Derived	%To be quoted	%To be quoted		Derived	24	24	24	0.112	Derived	Derived	%To be quoted	%To be quoted		Derived	
5	Ball	80	MAN	8	50	IA & SA SYSTEMS	CL 150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316		FLANGED AS PER ASME B 16.5 R/F	–	88.9	3.05	43	3.349	Derived	Derived	%To be quoted	%To be quoted		Derived	8	8	8	0.056	Derived	Derived	%To be quoted	%To be quoted		Derived	
6	BALL	100	MAN	8	50	IA & SA SYSTEMS	CL 150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316		FLANGED AS PER ASME B 16.5 R/F	–	114.3	3.05	4	0.487	Derived	Derived	%To be quoted	%To be quoted		Derived	2	2	2	0.022	Derived	Derived	%To be quoted	%To be quoted		Derived	
7	Ball	150	MAN	8	50	IA & SA SYSTEMS	CL 150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316		FLANGED AS PER ASME B 16.5 R/F	–	168.3	3.4	153	39.101	Derived	Derived	%To be quoted	%To be quoted		Derived	18	18	18	0.414	Derived	Derived	%To be quoted	%To be quoted		Derived	
8	BALL	15	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL 800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316		SCREWED AS PER IS-554 FEMALE PARALLEL	HOT DIP GALVANIZED	21.8	3.2	273	1.171	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	26	26	26	0.014	Derived	Derived	%To be quoted	%To be quoted	Derived		
9	BALL	25	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL 800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316		SCREWED AS PER IS-554 FEMALE PARALLEL	HOT DIP GALVANIZED	34.2	4	239	1.223	Derived	Derived	%To be quoted	%To be quoted		Derived	23	23	23	0.014	Derived	Derived	%To be quoted	%To be quoted	Derived		
10	BALL	50	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL 800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316		SCREWED AS PER IS-554 FEMALE PARALLEL	HOT DIP GALVANIZED	60.8	4.5	67	1.23	Derived	Derived	%To be quoted	%To be quoted		Derived	7	7	7	0.015	Derived	Derived	%To be quoted	%To be quoted	Derived		
11	BALL	80	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL 150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316		FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	89.5	4.8	14	0.798	Derived	Derived	%To be quoted	%To be quoted		Derived	6	6	6	0.041	Derived	Derived	%To be quoted	%To be quoted	Derived		
12	BALL	100	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL 150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316		FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	115	5.4	27	2.16	Derived	Derived	%To be quoted	%To be quoted		Derived	8	8	8	0.011	Derived	Derived	%To be quoted	%To be quoted	Derived		
13	BALL	150	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL 150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316		FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	166.5	5.4	77	12.204	Derived	Derived	%To be quoted	%To be quoted		Derived	10	10	10	0.024	Derived	Derived	%To be quoted	%To be quoted	Derived		
14	BALL	15	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2		SCREWED AS PER IS-554 FEMALE PARALLEL	–	21.8	3.2	578	1.288	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	57	57	57	0.017	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	
15	BALL	25	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2		SCREWED AS PER IS-554 FEMALE PARALLEL	–	34.2	4	482	2.263	Derived	Derived	%To be quoted	%To be quoted		Derived	49	49	49	0.026	Derived	Derived	%To be quoted	%To be quoted		Derived	
16	BALL	40	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2		SCREWED AS PER IS-554 PARALLEL FEMALE	–	48.8	4	18	0.204	Derived	Derived	%To be quoted	%To be quoted		Derived	6	6	6	0.007	Derived	Derived	%To be quoted	%To be quoted		Derived	
17	BALL	50	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2		SCREWED AS PER IS-554 FEMALE PARALLEL	–	60.8	4.5	90	1.652	Derived	Derived	%To be quoted	%To be quoted		Derived	11	11	11	0.02	Derived	Derived	%To be quoted	%To be quoted		Derived	
TOTAL														4019	99.012	Derived	Derived				Derived	431	431	431	0.988	Derived	Derived				Derived		

TOTAL EX-WORKS PRICE(MAIN VALVES+COMMISSIONING SPARES)	CENTER YOUR TOTAL EX-WORKS PRICE HERE-> LET THIS VALUE=X
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- NOTES:-
- IA - INSTRUMENT AIR, MAN - MANUAL, SA - SERVICE AIR
 - COMMISSIONING SPARES FOR BALL VALVES:- ONE SET CONSISTS OF BODY SEAL, STEM WASHER & STEM SEAL
 - VALUE IS TO BE FILLED ONLY WHERE "TO BE QUOTED" IS MENTIONED AND FOR OTHER COLUMNS WHERE "DERIVED" IS MENTIONED SAME SHALL BE DERIVED BY BHEL AS PER % ALLOCATION FIXED .SPARES & SERVICES PRICEES SHALL ALSO BE DERIVED BY BHEL AS PER % ALLOCATION SPECIFIED.
 - SUPPLIER TO QUOTE FINAL EX-WORKS PRICE IN THE CELL HIGHLIGHTED IN RED (SPECIFYING <ENTER YOUR TOTAL EX-WORKS PRICE HERE>) WHICH SHALL BE INCLUSIVE OF PRICES FOR MAIN VALVES AND COMMISSIONING SPARES.
 - THE TOTAL EX-WORKS PRICE MENTIONED IN NOTE NO. 3 SHALL BE USED TO DERIVE THE EX-WORKS PRICE OF MAIN VALVES AND COMMISSIONING SPARES BASED ON THEIR PERCENTAGES.
 - FURTHER, SUPPLIER TO QUOTE PERCENTAGES FOR ED, CST AND FREIGHT WHICH SHALL BE USED TO DERIVE TOTAL F.O.R. PRICE FOR MAIN VALVES AND COMMISSIONING SPARES SEPARATELY.
 - PLEASE REFER TECHNICAL SPECIFICATION (SPEC. NO. PE-TS-020-100-M004) FOR VALVE DETAILS.