

APPENDIX 9. TECHNICAL BID EVALUATION SHEET

1. DOCUMENTS SUBMISSION

No	DOCUMENTS	REQUIREMENT	BIDDER'S PROPOSED	REMARKS
1. 1	Supplier Certificate (Included Manufacturer Certificate)	Required		
1. 2	Bidding Certificate (Fire Safe Certificate, Evidence Of Job Experience)	Required		
1. 3	Manufacturer Brochure	Required		
1. 4	Manufacture & Inspection Equipment List	Required		
1. 5	Fabrication, Design, Inspection Schedule	Required		
1. 6	Manufacturing Specification	Required		
1. 7	Assembly Drawing Showing Material, Dimension, Cv(Flow Coefficient) & Weight, Spare Part List & Spec (Included Drawing for Grease Fitting Sets Part, Gland Packing, Support Legs, Lifting Lugs, End Connection Part, Stub Connection Part, Drawing FOR Stem Diameter, Gear Box, Gear Ratio)	Required		
1. 8	Each Accessories Specification and Quantity	Required		
1. 9	Inspection Procedure	Required		
1. 10	WPS & PQR, Welding Repair Procedure	Required		
1. 11	Plating(ENP & CR) Procedure & Specification	Required		
1. 12	QC/QA Manual	Required		
1. 13	Painting Specification	Required		
1. 14	Test and Inspection Specification	Required		
1. 15	Installation Manual	Required		
1. 16	Operation and Maintenance Manual(Include Assembly, Disassembly Dwg)	Required		
1. 17	Packing and Transportation Specification	Required		
1. 18	Nameplate Specification	Required		
1. 19	Strength Calculation Sheets(Body, Closure, Stem, Bolt)	Required		
1. 20	Supply List for Applicable Codes and Standards	Required		
1. 21	Repair Specification and Manual	Required		
1. 22	O-ring, Gasket, Graphite Specification	Required		
1. 23	Gear Box Detail DWG	Required		
1. 24	Specification, Certificate of Heat Treatment and Plating(Body, Ball, Stem)	Required		
1. 25	Specification and Certificate of O-ring	Required		
1. 26	Test Certificate(Report)	Required		
1. 27	The Others Requested Drawings and Documents by Purchaser (ex. Gear Box Drawing & Materials)	Required		

2. MATERIAL SPECIFICATION.

No.	ITEM		KGT REQUIREMENT	BIDDER'S PROPOSED	REMARKS
2. 1	BODY		ASTM A350 LF2 CL1 or EQ.		
2. 2	BALL		ASTM A350 LF2, Electroless Nickel plating(30µm and over) or Hard Chrome Plating(10µm and over)		
2. 3	SEAT	NPS 6" and Over	ASTM A350 LF2, Electroless Nickel plating(30µm and over) or Hard Chrome Plating(10µm and over), Reinforced PTFE, Viton or EQ.		
		NPS 4" and Below	Reinforced PTFE, Viton or EQ.		
2. 4	STEM		AISI4140 + Electroless Nickel plating(30µm and over) or Hard Chrome Plating(10µm and over)		
2. 5	GLAND		ASTM A350 LF2, Electroless Nickel plating(30µm and over) or Hard Chrome Plating(10µm and over)		
2. 6	STEM SEAL		Grand Packing and/or O-Ring		
2. 7	BOLT/NUT		A193 Gr.B7 / A194 Gr. 2H Galvanized		
2. 8	PUP-PIECE		A350 LF2 or Connection Pipe Material(API 5L Gr. X65(14" and Over) / API 5L Gr. X42(12" and below)		

3. TYPE AND STRUCTURE

No	ITEM	KGT REQUIREMENT	BIDDER'S PROPOSED	REMARKS
3. 1	Seat Unit	Double seal		
3. 2		BI-Direction type		
3. 3		D.P.E or All tightening type design		
3. 4	Ball Support type	6" and Over : Trunnion type		
3. 5		4" and Below : Trunnion or Floting type		
3. 6	Fire Safe Design	API 607 or API 6FA Certificate		
3. 7	End to End Dimension	API 6D(Long Pattern)		
3. 8	Anti-Static Design	Ball & Stem / Stem & Body		
3. 9	Double Block and Bleed type	Trunnion type		
3. 10	Drain	NPS 4", 6" : Piece type Bleed Plug(3/4" or 1/2")		
3. 11		NPS 8" and Over : Drain Pipe & Valve(1")		
3. 12	Locking Device	All Size		
3. 13	Ball type	9) Full Bore (API 6D)		
3. 14	Valve type	Split type (NPS 4 and Over : 3 pieces, NPS 2and Below : 2~3 pieces)		
3. 15	Position Indicator and Stopper design			
3. 16	Support legs and Lifting Lug Design	40kg weight and Over / NPS 8 and Over		
3. 17	Grease Fitting	NPS 4" and Over		
3. 18	Body Relief Valve	NPS 6" and over Valves should be equipped with body pressure relief in top quarter of valves body. And it'sset point should be 0.8 times of shell hydrostatic test pressure value		
3. 19	기 타	기타 사항은 Ball Valve Spec.에 준하여 제작할 것		

4. TEST INSPECTION

No	ITEM	KGT REQUIREMENT	TEST SCOPE	BIDDER'S PROPOSED	REMARKS
4. 1	Shell Hydrostatic Test	API 6D 11.3	By third party		
4. 2	Shell Pneumatic Test	ASME B16.34 / API-6D	By third party		
4. 3	Seat Pneumatic	High Pressure Test	API 6D B4.2 / API-STD 598	By third party	
4. 4		Low pressure Test	API 6D TABLE 11	By third party	
4. 5	Fire Safety Test	API 607 OR 6FA	By third party		
4. 6	Operating Test for Valve Handwheel and Lever	Operating Condition : Differential Pressure	By third party		
4. 7		Operating Torque : Max 196N	By third party		
4. 8	Radiographic Inspection	ASME SEC V. & VIII	By third party		
4. 9		ANSI B16.34 CHAPTER 8	By third party		
4. 10	Dye Penetrant Inspection or Magnetic Particle Inspection	ANSI B16.34 ANNEX. D	By third party		
4. 11	Ultrasonic Inspection	ANSI B16.34 ANNEX E.	By third party		
4. 12	Visual Inspection	MSS-SP-55	By third party		
4. 13	기 타	By KGT Ball Valve Spec. Chapter. IV	By third party		