

## Section 7. Technical Specifications

VARIOUS VALVE		
Item	Quantity	Description
01	02 Nos.	CAST STEEL FLANGED GATE VALVE, AS PER ANSI B16.5, B16.10 & API 600 INSPECTION & TEST-API 598, BODY MATERIAL: ASTM A216 WCB, API TRIM NO. 1, SIZE: 2.5" - 150 LBS.
02	42 Nos.	CAST STEEL FLANGED GATE VALVE, FLANGE: ANSI B16.5, B16.10, CONSTRUCTION: B16.34 API 600, INSPECTION & TEST-API-598, BODY & BONNET: ASTM A216 WCB, TRIM - API TRIM NO.1, SIZE: 3" - 150 LBS.
03	17 Nos.	CAST STEEL FLANGED GATE VALVE, FLANGE: ANSI B16.5, B16.10, CONSTRUCTION: B16.34 API 600, INSPECTION & TEST-API-598, BODY & BONNET: ASTM A216 WCB, TRIM - API TRIM NO.1, SIZE: 8" - 150 LBS.
04	8 Nos.	CAST STEEL FLANGED GATE VALVE, FLANGE: ANSI B16.5, B16.10, CONSTRUCTION: B16.34, API-600, INSPECTION & TEST: API-598, BODY & BONNET: ASTM A216 WCB, TRIM: API TRIM NO.1, SIZE: 10" - 150 LBS.
05	8 Nos.	CAST STEEL FLANGED GATE VALVE, FLANGE: ANSI B16.5, B16.10, CONSTRUCTION: B16.34, API-600, INSPECTION & TEST: API-598, BODY & BONNET: ASTM A216 WCB, TRIM: API TRIM NO.1, SIZE: 12" - 150 LBS.
06	7 Nos.	CAST STEEL FLANGED GATE VALVE, FLANGE: ANSI B16.5, B16.10, CONSTRUCTION: B16.34, API 600; INSPECTION & TEST-API-598, BODY & BONNET: ASTM A216 WCB, API TRIM NO.1, SIZE: 16" - 150 LBS.
07	4 Nos.	CAST STEEL FLANGED GATE VALVE AS PER ANSI B16.5, B16.10 & API 600 INSPECTION & TEST-API-598, BODY MATERIAL: ASTM A216 WCB, TRIM 13% CR/HF/STELLITE., SIZE: 18" - 150 LBS.
08	7 Nos.	CAST STEEL FLANGED GATE VALVE AS PER ANSI B16.5, B16.10 & API 600 INSPECTION & TEST-API-598, BODY MATERIAL: ASTM A216 WCB, TRIM 13% CR/HF/STELLITE., SIZE: 4" - 300 LBS.
09	160 Nos	FORGED STEEL GATE VALVAE STD. BORE, B.B, SW END, AS PER ANSI B16.11, API 602 & 598, BODY & BONET: ASTM A105 , API TRIM NO. 1, SIZE: 1/2" - 800 LBS.
10	330 Nos	FORGED STEEL GATE VALVAE, STD. BORE, B.B, SW END, AS PER ANSI B16.11, API 602 & 598, BODY & BONET: ASTM A105 , API TRIM NO.1, SIZE: 3/4" - 800 LBS.
11	170 Nos	FORGED STEEL GATE VALVAE, STD. BORE, B.B., SW END, AS PER ANSI B16.11, API 602 & 598, BODY & BONET: ASTM A105, API TRIM NO.1, SIZE: 1" - 800 LBS.
12	27 No.	FORGED STEEL GATE VALVAE STD. BORE B.B. SW END AS PER ANSI B16.11, API 602 & 598, BODY & BONET: ASTM A105 , API TRIM NO.1, SIZE: 2" - 800 LBS.
13	35 No.	FORGED STEEL GATE VALVAE STD. BORE, B.B, SW END, AS PER ANSI B16.11, API 602 & 598, BODY & BONET: ASTM A105, API TRIM NO. 1, SIZE: 1/2" - 800 LBS.
14	40 No.	FORGED STEEL GATE VALVAE, STD. BORE, B.B, SW END, AS PER ANSI B16.11, API 602 & 598, BODY & BONET: ASTM A105 , API TRIM NO.1, SIZE: 3/4" - 800 LBS.
15	20 No.	FORGED STEEL GATE VALVAE STD. BORE B.B. NPT END AS PER ANSI B16.11, B16.34, API 602 & 598, BODY & BONET: ASTM A105 WCB, STEM: 13% CR. DISC. SEAT RING BACK SEAT 13%/CR/HF/STELLITE, SIZE: 1 1/2" - 800 LBS.
16	6 No.	CAST ALLOY STEEL FLANGE GATE VALVE, FLANGE: ANSI B16.5, B16.10, RFS, CONSTRUCTION API 600, B16.34, TEST: API 598, BODY & BONNET: ASTM A217, GR. C5, TRIM: API TRIM NO. 1, SIZE: 4", 150 LBS.
17	4 No.	CAST STEEL ALLOY FLANGED GATE VALVE, MAT: ANSI B16.5, ANSI B16.10/API 600, INSPECTION & TEST API 598, BODY: ASTM A217 C5, TRIM: 13% CR/HF/STELLITE, SIZE: 2" - 300 LBS.
18	8 No.	BRONZE GATE VALVE TO PN16, MAT: UNS NO. C 83600, SCREWED BONET, NON RISING STEM, SOLID WEDGE, DISC MAT: BRASS, HAND WHEEL: HARD DURALUMIN, PACKING: HEAT RESISTANT FIBRE, ENDS - INSIDE SCREW (BSP), SERVICE: FIRE WATER, SIZE 2 1/2"
19	8 No.	FORGED STEEL NEEDLE VALVE SW ENDS AS PER B16.11, 16.34. API 602 & 598. BODY & BONNET: ASTM A105, API TRIM NO-1. SIZE: 3/4", 2500 LBS. END USE: HIGH PRESSURE HYDROGEN GAS SERVICE.

20	8 No.	FORGED STEEL NEEDLE VALVE SW ENDS AS PER B16.11, 16.34. API 602 & 598. BODY & BONNET : ASTM A105, API TRIM NO-1. SIZE: 1" , 2500 LBS. END USE: HIGH PRESSURE HYDROGEN GAS SERVICE.
21	3 No.	CAST STEEL BUTTERFLY VALVE, API 609, RFS, FLANGE TO ANSI B16.5, B16.10 WAFER TYPE, LEVER OPERATED, BODY: ASTM A216, GR. WCB, DISC & STEM: 304 SS, SEAT: NBR, SIZE: 3" - 150 LBS.
22	5 No.	CAST STEEL BUTTERFLY VALVE, API 609, RFS, FLANGE TO ANSI B16.5, B16.10 WAFER TYPE, LEVER PERATED, BODY: ASTM A216, GR. WCB, DISC & STEM: 304 SS, SEAT: NBR, SIZE: 6" - 150 LBS.
23	2 No.	Butterfly Valve, (Carbon Steel), Size: 18" – 150 Lbs. A216 WCB, BODY: 304 SS DISC & STEM, NBR SEATS GEAR OP
24	20 No.	CAST STEEL FLANGED SWING CHECK VALVE, AS PER ANSI B16.5, B 16.10 & API-600, INSPECTION & TEST API-598, BODY MATERIAL: ASTM A216 WCB, API TRIM NO.1, SIZE: 3" - 150 LBS.
25	5 No.	CAST STEEL FLANGED SWING CHECK VALVE, AS PER ANSI B16.5, B 16.10 & API-600, INSPECTION & TEST API-598, BODY MATERIAL: ASTM A216 WCB, API TRIM NO.1, SIZE: 4" - 150 LBS.
26	6 No.	CAST STEEL FLANGED SWING CHECK VALVE, AS PER ANSI B16.5, B 16.10 & API-600, INSPECTION & TEST API-598, BODY MATERIAL: ASTM A216 WCB, API TRIM NO.1, SIZE: 6" - 150 LBS.
27	4 No.	CAST STEEL FLANGED SWING CHECK VALVE, AS PER ANSI B16.5, B 16.10 & API-600, INSPECTION & TEST API-598, BODY MATERIAL: ASTM A216 WCB, API TRIM NO.1, SIZE: 8" - 150 LBS.

**TERMS & CONDITION:**

1. Country of Origin: USA/UK/Japan/EU/ S. Korea/Malaysia/ Canada.
2. Manufacturer Authorization to be supplied with the offer.
3. Third Party inspection should be carried out by any one of the following inspection agencies.  
i) ABS ii) Lloyds iii) Bureau Veritas iv) SGS v) TUV vi) DNV.  
a) To confirm country of origin, specifications, quality & quantity of Valves. Relevant inspection report duly signed by the authorized inspector to be supplied with the shipping documents.  
b) To endorse quality certificate furnished by the supplier from the manufacturer. Endorsed report to be supplied with the shipping documents.
4. Third Party Inspection (TPI) charges should be mentioned separately.

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