



**CNG AND CITY GAS DISTRIBUTION PROJECT  
TENDER FOR SUPPLY OF SS FITTINGS AND VALVES  
CORRIGENDUM-1**



**TENDER NO: 110290/WGI/GAIL GAS/26-R0**

**DATED– 27.10.2010**

<b>Sr. No.</b>	<b>Section / Clause No.</b>	<b>Tender Doc. Page No.</b>	<b>Clause Description</b>	<b>Added / Modified / Deleted</b>
1.	Vol. II of II Cl.7.1. point no i. Specification of SS valve	Page 20 of 33	The Valve Manufacturer shall submit factory test reports for the following tests carried out on each valves:  i. Hydrostatic seat leak test shall be carried out with de-ionized water. There shall be no detectable seat leakage at 1.1 times the rated pressure of the valve.	<b>Modified as:</b> The Valve Manufacturer shall submit factory test reports for the following tests carried out on each valves:  i. Hydrostatic seat leak test shall be carried out with water. There shall be no detectable seat leakage at 1.5 times the operating pressure of the valve. ( all other points of this clause remains unchanged)
2.	Vol. II of II Cl.7.1. point no vii. Specification for SS fittings	Page 15 of 33	All Fittings should be hydro-tested to a pressure of 1.5 times the operating pressure	<b>Modified as:</b> Fittings should be hydro-tested to a pressure of 1.5 times the operating pressure ( all other points of this clause remains unchanged)
3	Vol. II of II Cl.5.1. Specification of SS valve	Page 19 of 33	The valve body will be made out of material conforming to ASTM A 479 Gr. SS 316./ ASTM A351 SS316	<b>Modified as:</b> The valve body will be made out of material conforming to ASTM A 479 Gr. SS 316
4	Vol. II of II Cl.5.2. Specification of SS valve	Page 19 of 33	MOC of ball shall conform to ASTM A 276 Gr. SS 316./ Equivalent.	<b>Modified as:</b> MOC of ball shall conform to ASTM A 276 Gr. SS 316
5			SOR	Revised SOR attached
6			MR	Revised MR attached
7	Vol. I of II Clause 11.0	Page 15 of 120	Bid Prices	<b>New Clause Added :</b> 11.8 Bidder may quote for one or more items and his offer will be considered based on qualification criteria. However, bidder must quote full quantity against an individual item (including sub items). Bidder quoting for partial quantities in an item or sub item shall not be considered for that item.

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8	Vol. II of II Cl. 2. MR for SS Fittings & Valve	Page 8 of 33	All items will be delivered at Dewas, Kota, CWC Ghaziabad, Sonipat.	<b>Modified as:</b> All items will be delivered at Dewas, Kota, , Sonipat and CWC Ghaziabad as under:- <ol style="list-style-type: none"><li>1. Dewas - 15%</li><li>2. Kota - 20%</li><li>3. Sonipat - 25%</li><li>4. CWC Ghaziabad - 40%</li></ol>
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**JP KENNY**



**GAIL GAS LIMITED  
CITY GAS DISTRIBUTION PROJECT**



**MATERIAL REQUISITION FOR  
SS FITTINGS & VALVES**

**CLIENT JOB NO.**

**TOTAL SHEETS**

09

**DOCUMENT NO**

11

0290

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1	21/10/10	ISSUED FOR CORRIGENDUM	AS	JLG	PKS
0	01/10/10	ISSUED FOR TENDER	AS	JLG	PKS
C	30/09/10	CLIENT'S COMMENTS INCORPORATED	AS	JLG	PKS
B	14/09/10	ISSUED FOR APPROVAL	AS	JLG	PKS
A	25/08/10	ISSUED FOR IDC	AS	JLG	PKS
	<b>DATE</b>	<b>DESCRIPTION</b>	<b>PREP</b>	<b>CHK</b>	<b>APPR</b>

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SS FITTINGS & VALVES**

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**LIST OF ATTACHMENTS**

<b>S.NO.</b>	<b>DOCUMENT TITLE</b>	<b>DOCUMENT NUMBER</b>	<b>NO. Of Pages</b>
1.0	TECHNICAL SPECIFICATION FOR SS FITTINGS.	11-0290-02-08-02-028	6
2.0	TECHNICAL SPECIFICATION FOR SS VALVES	11-0290-02-08-02-027	5
3.0	DATA SHEET FOR 3/4" 3 WAY SS BALL VALVE	11-0290-02-08-03-031	2
4.0	DATA SHEET FOR 3/4" 2 WAYSS BALL VALVE	11-0290-02-08-03-027	3
5.0	DATA SHEET FOR 3/4" SS NON RETURN VALVE	11-0290-02-08-03-028	2
6.0	DATA SHEET FOR 1/2" SS BALL VALVE	11-0290-02-08-03-029	3
7.0	DATA SHEET FOR 1/2" SS NON RETURN VALVE	11-0290-02-08-03-030	2

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## 1.0 SCOPE OF SUPPLY (SOS)

### 1.1 General

This requisition describes the scope of supply of SS Fittings, Valves, to be used in the city gas Distribution project of GAIL GAS Ltd.

The scope of supply includes the design, manufacture, inspection, testing, packing, preparation for shipment and documentation requirements of these items in accordance with the requirements of this Requisition and the Vendor Drawing / Data Requirements List (VDR) and those detailed in Specification.

### 1.2 Material Delivery Requirements

The finished materials are to be delivered by the Supplier at the nominated delivery point, fixed by the Purchaser/ Purchaser Representative.

The Supplier shall be responsible for all handling and transportation between his production plant and the nominated delivery point in accordance with this specification.

### 1.3 SS Fittings, Valves:

The type and quantities of are SS Fittings, Valves as detailed below:

S.NO	Sub item	SIZE	Required Quantity
SS FITTINGS - GROUP (A)			
1		90 Degree Union Elbow Size : 1" OD X 1" OD Material : SS316 ,Pressure Rating 6000 Psig .Double ferrule type end connections at both ends.	60
2		90 Degree Union Elbow Size : ¾" OD X ¾" OD Material : SS316 ,Pressure Rating 6000 Psig .Double ferrule type end connections at both ends.	600
3		90 Degree Union Elbow Size : 1/2" OD X 1/2" OD Material : SS316 ,Pressure Rating 6000 Psig .Double ferrule type end connections at both ends.	600
4		Equal Tee Size : 3/4" OD X 3/4" OD X 3/4" OD, Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends.	250
5		Cross Size : 3/4" OD X 3/4" OD X 3/4"ODX 3/4" OD, Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends.	20



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6		Cross Size : 1/2" OD X 1/2" OD X 1/2" ODX 1/2" OD, Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends.	30
7		Reducing Tee Size : 3/4" OD X 3/4" OD X 1/2" OD, Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends.	400
8	8.1	Union Size : 1" X 1" Tube OD Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at both ends.	150
	8.2	Front & Back Ferrule 1 " OD, material SS 316. Pressure Rating 6000 Psig.	150
	8.3	Nut 1 " OD, material SS 316 .Pressure Rating 6000 Psig.	150
9	9.1	Union Size : 3/4" X 3/4" Tube OD Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at both ends.	900
	9.2	Front & Back Ferrule 3/4 " OD, material SS 316. Pressure Rating 6000 Psig.	900
	9.3	Nut 3/4 " OD, material SS 316 .Pressure Rating 6000 Psig.	900
10	10.1	Union Size : 1/2" X 1/2" Tube OD Material : SS316. Pressure Rating 6000 Psig. Double ferrule type end connections at both ends.	400
	10.2	Front & Back Ferrule 1/2 " OD, material SS 316. Pressure Rating 6000 Psig.	400
	10.3	Nut 1/2" OD, material SS 316. Pressure Rating 6000 Psig.	400
11	11.1	Front & Back Ferrule 3/8 " OD, material SS 316. Pressure Rating 6000 Psig.	10
	11.2	Nut 3/8" OD, material SS 316. Pressure Rating 6000 Psig.	10
12		Reducing Union Size : 1" X 3/4" .Tube OD material : SS 316 Pressure Rating 6000 Psig. Double ferrule type end connections at both ends.	35
13		Reducing Union Size : 3/4" X 1/2" .Tube OD material : SS 316 Pressure Rating 6000 Psig. Double ferrule type end connections at both ends.	20
14		3/4 " OD Plug, material SS 316. Pressure Rating 6000 Psig.	40
15		Reducing male connector – Size 1/4" NPT (M) x 3/8" OD SS 316 Pressure rating 6000 psig	10

16	Quick connector Body and Stem, end connection : 1/2" tube OD for stem & 1/2" NPT F for body, SS 316; minimum pressure rating 4000 psig	10
17	Reducing male connector – Size 1/2" MNPT x 3/8" OD, SS 316 pressure rating 6000 psig	10
18	3/8" ID Conductive Core Thermoplastic Hose for CNG Service with Both side 3/8" OD SS 316 Tube adapter end connection & spring guard x 60" long. minimum pressure rating 4000 psig	10
19	1/2 " OD Plug, material SS 316. Pressure Rating 6000 Psig.	80
20	3/4 " OD End Cap, material SS 316. Pressure Rating 6000 Psig	250
21	1/2 " OD End Cap, material SS 316. Pressure Rating 6000 Psig	10
22	Equal Tee Size : 1" OD X 1" OD X 1" OD, Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends	10
23	Reducing Tee Size : 1" OD X 1" OD X 3/4" OD, Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends	10
24	Reducing Tee Size : 1" OD X 1" OD X 1/2" OD, Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends	10
25	Reducing Tee Size : 1" OD X 3/4" OD X 1/2" OD (Branch), Material : SS316 Pressure Rating 6000 Psig. Double ferrule type end connections at all ends	10
26	Reducing Union Size : 1" X 1/2" .Tube OD material : SS 316 Pressure Rating 6000 Psig. Double ferrule type end connections at both ends.	10
27	Reducing Port Connector 1"x3/4" Tube OD material : SS 316 Pressure Rating 6000 Psig.	10
28	Reducing Port Connector 3/4"x1/2" Tube OD material : SS 316 Pressure Rating 6000 Psig.	10
29	Port Connector 1" Tube OD material : SS 316 Pressure Rating 6000 Psig.	10
30	Port Connector 3/4" Tube OD material : SS 316 Pressure Rating 6000 Psig.	10

31		Port Connector 1/2" Tube OD material : SS 316 Pressure Rating 6000 Psig.	10
32		Male Connector 1" OD X 1" M NPT material : SS 316 Pressure Rating 6000 Psig.	10
33		Male Connector 3/4" OD X 3/4" M NPT material : SS 316 Pressure Rating 6000 Psig.	10
34		MaleConnector 1/2" OD X 1/2" M NPT material : SS 316 Pressure Rating 6000 Psig.	10
35		1 " OD Plug, material SS 316. Pressure Rating 6000 Psig	10
36		2-way Ball valve 3/4", W.P: 255bar g, Size: 3/4" OD with nut, front and back ferrule on both sides Nylon with SS/Brass inserts Handle, Body: SS 316, Peek Seats (suitable for 6000 psi pressure CNG application). ( valve should be of forged construction)	200
37		2-way Ball valve 3/4", W.P: 255bar g, Size: 3/4" OD with nut, front and back ferrule on both sides Nylon with SS/Brass inserts Handle, Body: SS 316, Peek Seats with lock-in facilities (suitable for 6000 psi pressure CNG application). ( valve should be of forged construction)	80
38		2-way Ball valve 1/2",W.P: 255bar g, Size: 1/2"OD with nut, front and back ferrule on both sides Nylon with SS/Brass inserts Handle, Body: SS 316, Peek Seats (suitable for 6000 psi pressure CNG application). ( valve should be of forged construction)	300
39		3-way Ball valve 3/4" OD end connection & 1/4" NPT (F) bottom end connection (zero leakage) W.P: 255bar g, with nut, front and back ferrule on both sides Nylon with SS/Brass inserts Handle, Body: SS 316, Peek Seats (suitable for 6000 psi pressure CNG application). ( valve should be of forged construction)	30
40		Non-return valve 3/4" , W .P : 255 bar g, Size: 3/4" OD with nut, front and back ferrule on both sides. Cracking pressure= 1 Psi (Suitable for 6000 psi pressure CNG application),Seal BUNA-N /Equivalent	60

		( valve should be of forged construction)	
41		Non-return valve 1/2" , W .P : 255 bar g, Size: 1/2" OD with nut, front and back ferrule on both sides. Cracking pressure= 1 Psi (Suitable for 6000 psi pressure CNG application),Seal BUNA-N /Equivalent ( valve should be of forged construction)	300

## 2.0 DELIVERY LOCATIONS

All items will be delivered at Dewas, Kota, CWC Ghaziabad, Sonipat.

## 3.0 GENERAL NOTES

- 3.1 SS Valves/ Fittings shall be used for CNG service. Accordingly tests as per specification shall be Applicable.
- 3.2 All material shall be delivered at Company's designated storage yard. The destination for delivery of the valves, fittings shall be at designated GAIL gas store at as per clause 2.0.
- 3.3 Bidder must submit duly filled up and signed data sheets and Quality Manuals along with his offer.

In the absence of this information, Company reserves the right to reject bidder's offer without any reference to Bidder in this regard.

## 4.0 REMARKS

- 4.1 Supplier's Compliance  
Supplier shall submit his bid in full compliance with the requirements of this MR and attachments. Supplier must include following statement in his bid:

We certify that our bid is fully complying with your enquiry dated\_\_\_\_\_ and reference\_\_\_\_\_

- 4.2 Compliance with Specification

The supplier shall be completely responsible for the design, materials, fabrication, testing, inspection, preparation for shipment & transfer of above material strictly in accordance with the MR & all attachments.

- 4.3 Supplier's Scope

Supplier's scope of work supply includes the equipment with all internals & accessories shown on the data sheets, specifications and all unmentioned parts necessary for a satisfactory operation & testing except those which are indicated to be out of Supplier's supply.

- 4.4 Inspection

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The manufacturer shall furnish typical test reports of all tests conducted on SS fittings / SS valves as per the technical specification & data sheet of tender.

**5.0 SPECIAL INSTRUCTIONS TO BIDDERS**

- 5.1 Bidder to note that no correspondence shall be entered into or entertained after the bid submission.
- 5.2 Bidder shall furnish quotation only in case he can supply material strictly as per this Material Requisition and specification/data sheets forming part of Material Requisition.
- 5.3 If the offer contains any technical deviations or clarifications or stipulates any technical specifications (even if in line with MR requirements) and does not include complete scope & technical/ performance data required to be submitted with the offer, the offer shall be liable for rejection.
- 5.4 The submission of prices by the Bidder shall be construed to mean that he has confirmed compliance with all technical specifications of the corresponding item(s).
- 5.5 Bidder must submit all documents as listed in checklist along with his offer.

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**TENDER NO: 110290/WGI/GAIL GAS/26-R0**

**DATED– 27.10.2010**

<b>Sr. No.</b>	<b>Section / Clause No.</b>	<b>Tender Doc. Page No.</b>	<b>Bidders Queries</b>	<b>Reply</b>
1.	Vol. II of II Cl.7.0 Pt. vii Technical specification for SS fittings	Page 15 of 33	All fittings cannot be hydro-tested	<b>Refer Corrigendum-1</b>
2.	Vol. II of II Cl. 5.1 Technical specification for SS valves	Page 19 of 33	MOC of valve body & ball MUST be only forged type	<b>Refer Corrigendum-1</b>
3.	Tender SS fittings and valve	SOR / MR	SI No. 31 to 39 description is not clear	<b>Refer Revised SOR &amp; MR</b>
4.	Tender SS fittings and valve	MR	Third party inspection agencies	<b>Refer Revised MR</b>
5.	Vol. II of II Data sheet of three way Ball Valve	Page 23 of 33	Data sheet for ¾" Three way Ball Valves does not contain any certificates and type certificate requirement, please confirm if require.	<b>Tender condition prevails.</b>
6.	Vol. II of II Data sheet of two way Ball Valve	Page 24 of 33	¾" Two way ball valve no data sheet is attached.	<b>Tender condition prevails.</b>
7.	Tender SS fittings and valve	SOR / MR	As discussed, the comparison of the bid will be item wise, hence we request you to club all the child parts of the fittings (like front ferrule and back ferrule, Nut and fittings).	<b>Refer Revised SOR &amp; MR</b>

8.	Tender SS fittings and valve	SOR / MR	a) The figure ".....3000 psig." should read as ".....3750psig." b) The specification of end connections of hose is not given. The end connection specification i.e. Size, Type of end should be given.	<b>Refer Revised SOR &amp; MR</b>
9.	Tender SS fittings and valve	SOR / MR	The description " Reducing Tee Size 1"OD x 3/4"OD x 1"OD" indicates that reducing size 3/4"OD is on the Run end.	<b>Refer Revised SOR &amp; MR</b>
10.	Tender SS fittings and valve	SOR / MR	Please specify the minimum Orifice size or Cv or Bore type.	<b>Tender condition prevails.</b>
11.	Vol. II of II Cl.3.1. MR for SS Fittings & valve	Page 8 of 33	".....R-LNG service." should read as ".....CNG service."	<b>Refer Revised MR</b>
12	Vol. II of II Cl.5.6. MR for SS Fittings & Valve	Page 9 of 33	Approved vendor list should be attached.	<b>Refer Revised MR</b>
13	Vol. II of II Cl.6.5. Technical Specification of SS Valve	Page 19,20 of 33	Please specify the required type approval for valves.	<b>Tender condition prevails.</b>
14	Vol. II of II Cl. 7.1. Technical Specification of SS Valve	Page 20 of 33	a) The words "....de-ionized...." should be deleted. b) Please confirm one standard test pressure i.e. 1.1 times or 1.5 times.	<b>Refer Corrigendum-1</b>
15	Vol. II of II Data sheet of Ball Valve	Page 24 of 33	Please specify the desired certification requirement.	<b>Tender condition prevails.</b>

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REPLIES TO BIDDER'S QUERIES



16	Vol. II of II Cl. 2. MR for SS Fittings & Valve	Page 8 of 33	Delivery Location	Refer Corrigendum-1
17	Vol I of II Clause 31.1 (c) of ITB	Page 21 of 120	The figure "...23.89..." should be changes to read as "...27% for fittings and 24.12% for valves...."	<b>Since this is a notional loading no change is required. Tender conditions will prevail</b>