



INDRADHANUSH GAS GRID LIMITED (IGGL)

(Joint Venture of IOCL, ONGC, GAIL, OIL and NRL)

GUWAHATI, ASSAM

**NORTH -EAST GAS GRID PIPELINE PROJECT
(PIPELINE SECTION 4, 6, 7, 8, 9, 12, 13 & 14)**

CORRIGENDUM `1 FOR PROCUREMENT

OF

BALL VALVES

OPEN DOMESTIC COMPETITIVE BIDDING

Tender No.: 05/51/23VC/IGGL/002

Visit: www.tenderwizard.com/MECON
(Tender wizard helpdesk: 011-49424365)



PREPARED AND ISSUED BY

MECON LIMITED

(A Govt. of India Undertaking)

Delhi, India



CORRIGENDUM # 1
PROCUREMENT OF BALL VALVES FOR NORTH -EAST GAS GRID PIPELINE PROJECT
(PIPELINE SECTION 4, 6, 7, 8, 9, 12, 13 & 14) OF M/s IGGL

Tender No. 05/51/23VC/IGGL/002



Date: 12.01.2022

Sl. No.	Description	Volume	Page No.	Clause / Para / Section	Amendment / Addition / Modification / Deletion	
1	Data Sheet	II o II		-	Modification	The revised DATA SHEET NO.: MEC/23VC/05/28/M/001/DS/BV/08A is enclosed as Annexure-I to this Corrigendum.

All other terms & conditions of tender document remain unaltered.

ANNEXURE-I to CORRIGENDUM 1

DATA SHEET FOR BALL VALVES

MR Item no. : 19 & 22

1.0 Valve Manufacturer :
 2.0 Valve Size (NB) (inch): 150 (6") & 100 (4") ANSI RATING : 600# Design Standard : API 6D
 3.0 MECON's Technical Specification No.: MEC/TS/05/21/002, Rev-1, Ed-1
 4.0 Design Pressure : 92 kg/cm2 (g) Design Temperature, °C : -29°C to + 65°C

5.0 Connecting Pipe Specification:

	DN 150 (6")	DN 100 (4")
5.1 Material	ASTM A106 Gr. B	ASTM A106 Gr. B
5.2 Diameter (OD)	168.3	114.3
5.3 Thickness	10.97	8.56

6.0 Valve Construction Design

6.1 Configuration : Reduced Bore Full Bore
 6.2 End Connections : Flanged as per ASME B16.5 Butt Welded as per ASME B16.25
 6.3 Flanges (wherever applicable) : a) RF RT NA
 b) Serrated Smooth (125 to 200 microinches AARH) NA
 6.4 Ball Mounting : Trunnion mounted
 6.5 Valve body type : Fully Welded
 6.6 500 mm pup piece (integrally welded to the valve on each side) : Yes No
 (Material, Outer Diameter and Thickness of pup piece to be same as that of the connecting pipe mentioned above)

7.0 Valve Material Specification

Part	Specified Material	Material Offered (Equivalent or superior)
7.1 Body	A 216 Gr. WCB / A 234 Gr. WPB	
7.2 Ball	(A 216 Gr.WCB/A 234 Gr.WPB) +75 µENP coating/ AISI410	
7.3 Body Seat Rings	AISI 4140 + 75 micron ENP coating/AISI 410	
7.4 Seat Seal	VITON/DEVLON	
7.5 Stem (No casting)	AISI 4140 + 75 micron ENP coating/AISI 410	
7.6 Stem Seals	VITON/PTFE	
7.7 Trunnion	A 216 Gr. WCB/A 234 Gr. WPB	
7.8 Stud Bolts/ Nuts	ASTM A 193 Gr. B7/ A194 Gr. 2H	

8.0 Corrosion Allowance : 1.5 mm Service : Natural Gas
 9.0 Location : Above Ground Buried Length of stem extension shall be 2750 mm ± 250mm from valve center line. The length shall be finalized during drawing approval stage.
 10.0 Stem Extension Requirement : Yes No
 11.0 Gear Operator Requirement : Yes For 6" No Lever Operated for 4"
 12.0 Actuator Requirement : Yes No
 13.0 Fire Resistant Design Requirement : Type test as per API 6 FA/607
 14.0 Valve Testing Requirement

14.1 Hydrostatic Test	Body Seat	Test Pressure (min.), kg/cm ² (g)	Minimum Duration (minutes)
		157	As per API 6D
14.2 Air Test		5.6 - 7	As per API 6D


15.0 Anti-Static Testing Requirement : As per Standard API 6D (Latest Ed.)

16.0 Valve Painting Specification

16.1 Surface preparation by Short Blasting as per grade SA 2 1/2, Swedish Standard SIS-055 909.
 16.2 For underground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 600 micron
 Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.
 17.0 Lock Open Requirement : N.A.

Notes:

- This Valve Data Sheet shall be read in conjunction with MECON's Technical Specification No. MEC/TS/05/21/002, Rev 1, Ed. 1
- Minimum thickness of valve body / adapter shall not be less than that specified in MECON's Technical Specification No. MEC/TS/05/21/002, Rev 1, Ed. 1.
- Inspection and Testing shall be as per attached QAP, this Data Sheet, MECON's T.S., API 6D and other relevant standards.
- Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.
- Short pattern valves (as per API 6D or otherwise) are not permitted. Only long pattern valves are to be supplied.
- Charpy V-notch & Hardness test for body, body adaptor, end flanges, ball, body seat rings, stem & studs / nuts shall be conducted as per Cl. 3.4 & 3.6 of TS respectively or as per relevant material code.
- Compressed asbestos fibre (CAF) shall not be used for body sealing / gasket materials.
- For welding end, the out of roundness (i.e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD.
- Valves shall be inspected and approved by Purchaser before despatch.
- Support foot & lifting lugs shall be provided as per Cl. 4.16 of the TS for Ball Valves.
- Bidder shall clearly write valves material (equivalent or superior) offered by them against each part/material of valve in the space provided for. Wherever bidder agrees with valves material as mentioned above in MECON's data sheet, bidder shall clearly indicate "AGREED".

REV. NO.	DATE	ZONE	DESCRIPTIONS	BY	APPRD	REFERENCES	DRG. NO.
REVISIONS							
SECTION Oil & Gas							
	PREPARED	CHECKED	APPROVED			 MECON LIMITED	
NAME	A.Mathur	HK	I.SEN	CLIENT : INDRADHANUSH GAS GRID LIMITED			
DATE	14-Dec-21	14-Dec-21	14-Dec-21	PROJECT: NORTH -EAST NATURAL GAS PIPELINE GRID (PHASE-2) PROJECT			
SIGN				DATA SHEET FOR BALL VALVES (NB ≥ 2")			SCALE : DATA SHEET NO.: MEC/23VC/05/21/M/001/DS/BV/08A