



INDRADHANUSH GAS GRID LIMITED (IGGL)
(Joint Venture of IOCL, ONGC, GAIL, OIL and NRL)
GUWAHATI, ASSAM

NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1)
PIPELINE SECTION 1, 2,3, 5 & 9

CORRIGENDUM # 3 FOR PROCUREMENT
OF

BALL VALVES

OPEN DOMESTIC COMPETITIVE BIDDING

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

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



PREPARED AND ISSUED BY

MECON LIMITED
(A Govt. of India Undertaking)
Delhi, India



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FOR PROCUREMENT OF BALL VALVES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) PIPELINE SECTION 1, 2,3, 5 & 9
OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/002



IGGL

MECON LIMITED

Date: 12.11.2020

Sl. No.	Description	Volume	Page No.	Clause / Para / Section	Amendment / Addition / Modification / Deletion	
1	Data Sheets (DS- 02)	II of II	Pages 81	6.6 of Data Sheet	Amendment	The Revised Data Sheet is enclosed as Annexure -1 to this Corrigendum
2	SPECIFICATION FOR GAS POWERED VALVE ACTUATOR	II of II	Pages 51	NOTE-3 of SPECIFICATION	Modification	NOTE-3 is modified to "Opening / Closing time shall be achieved at max. Design Differential pressure across the valve & actuator regulated pressure max. 20 kg/cm2(g) (approx.). "

All other terms & conditions of tender document remain unaltered.

ANNEXURE-I to Corrigendum # 3

Annexure - I

DATA SHEET FOR BALL VALVES

MR Item nos. : A.2, B.2, C.2 & D.2

1.0 Valve Manufacturer :
 2.0 Valve Size (NB) (inch) : DN 600 (24"), 450 18"), 300 (12") & 200 (8")
 3.0 MECON's Technical Specification No.: **MEC/TS/05/21/002, Rev-1, Ed-1**
 4.0 Design Pressure : **92 kg/cm2 (g)**

ANSI RATING : 600#
 Design Standard : **API 6D**
 Design Temperature, °C : **-29°C to + 65°C**

5.0 Connecting Pipe Specification:	DN 600 (24")	DN 450 (18")	DN 300 (12")	DN 200 (8")
5.1 Material	API 5L Gr. X-70 PSL 2	API 5L Gr. X-70 PSL 2	API 5L Gr. X-70 PSL 2	API 5L Gr. X-70 PSL 2
5.2 Diameter (OD)	610	457	323.8	219.1
5.3 Thickness	14.3 mm	9.53 mm	9.53 mm	7.92 mm
5.4 Tag Nos.	AV - 0103, 0601, 0602, 1101, 1102, 1901, 1902, 2401	AV - 1402, 2501	AV - 2502, 4001	AV - 1302, 1501

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. WCC / A 350 LF6	
7.2 Ball	(A 216 Gr.WCC/ A 350 LF6) +75 µENP coating/ AISI410	
7.3 Body Seat Rings (No Casting)	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 105	
7.8 Stud Bolts/ Nuts	ASTM A 193 Gr. B7/ A194 Gr. 2H	

8.0 Corrosion Allowance : **1.5 mm**

9.0 Location : Above Ground Buried

10.0 Stem Extension Requirement : Yes No

11.0 Gear Operator Requirement : Yes No

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**

Service : **Natural Gas**

Length of Stem Extension, m : NA

REMOTE OPERATED AV as per TS No. MEC/ TS / 05 / E5 / 002A

14.1 Hydrostatic Test	Body	Test Pressure (min.), kg/cm ² (g)	Minimum Duration (minutes)
		157	As per API 6D
14.2 Air Test	Seat	114	As per API 6D
		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 above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 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 ASME B16.34 plus corrosion allowance specified in this datasheet .
- 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 PROCESS & PIPING								
NAME	PREPARED	CHECKED	APPROVED	CLIENT : INDRADHANUSH GAS GRID LIMITED PROJECT: NORTH -EAST NATURAL GAS PIPELINE GRID (PHASE-1) PROJECT				 MECON LIMITED
DATE	11-Nov-20	11-Nov-20	11-Nov-20					
SIGN								
DATA SHEET FOR BALL VALVES (NB ≥ 2")						SCALE :	REV 1	
						DATA SHEET NO.: MEC/23UU/05/21/M001/DS/BV/02		