



BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

Procurement of ½" Isolation valves for
Hyderabad, Vijayawada and Kakinada CGD Projects

UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING

Bid Document No.: BGL/317/2016-17

VOLUME-II of II

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BHAGYANAGAR GAS
LIMITED


Tender for Procurement of ½" Isolation Valves for
Hyderabad, Vijayawada and Kakinada CGD Projects

Bid Document No. BGL/317/2016-17

VOLUME II
OF II

SECTION – 8

MATERIAL REQUISITION


 <p>BHAGYANAGAR GAS LIMITED</p>	<p>Tender for Procurement of ½” Isolation Valves for Hyderabad, Vijayawada and Kakinada CGD Projects</p> <p>Bid Document No. BGL/317/2016-17</p>	<p>VOLUME II OF II</p>
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Material Requisition

Group A: Isolation and Appliance Valve

Sl. No.	Description	Unit	Quantity
01	Isolation Valve, Conforming to BGL’s Technical Specification i.e. BS EN 331 of following sizes, grades & specifications as indicated below: ½” Isolation Ball Valve	Nos.	3000

SECTION – 9
SPECIAL CONDITIONS OF CONTRACT (SCC)

 <p>BHAGYANAGAR GAS LIMITED</p>	<p>Tender for Procurement of ½" Isolation Valves for Hyderabad, Vijayawada and Kakinada CGD Projects</p> <p>Bid Document No. BGL/317/2016-17</p>	<p>VOLUME II OF II</p>
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SPECIAL CONDITIONS OF CONTRACT (SCC)

GENERAL

- 1.1 Special Conditions of Contract shall be read in Conjunction with the General Conditions of Contract, Specification of work, Drawing and any other documents forming part of this Contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with in the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Conditions of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall be the extent of such repugnancy, or variations, prevail.
- 1.4 Wherever it is mentioned in the specification that the Contractor shall perform certain work or provide certain facilities, it is understood that the Contractor shall do so at his cost and the **Value of Contract** shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.5 The materials, design, and workmanship shall satisfy the relevant Indian Standard, the Job Specifications contained herein and Codes referred to where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.6 In case of an irreconcilable conflict between Indian or other applicable standards, General Conditions of Contract, Special Conditions of Contract, Specification, Drawings or Schedule of Rates, the following shall prevail to the extent of such irreconcilable conflict in order of precedence:
 - i) Letter of Acceptance/ FOI alongwith Statement of Agreed Variations.
 - ii) Schedule of Rates as enclosures to Letter of Acceptance
 - iii) Special Conditions of Contract
 - iv) Drawings
 - v) Technical/ Material Specifications
 - vi) Instruction to Bidder
 - vii) General Conditions of Contract
 - viii) Indian Standards
 - ix) Other applicable standards
- 1.7 It will be the Contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) or making the supply with reference which the conflict exists.

1.8 In the absence of any Specifications covering any material, design of work(s) the same shall be performed/ supplies/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-in-charge, which will be binding on the Contractor.

2.0 SCOPE OF SUPPLY

The Scope of Supply shall be as set out at Material Requisition, Data Sheets and Technical Specifications given in Volume-II of tender document and supplemented by all stipulation in the total tender document.

3.0 CONTRACT PRICE

The contract price shall be deemed to be firm and valid for the entire duration of the contract till the completion of work, and shall not be subject to any adjustment due to increase in price of materials, utilities, or any other input for performance of work and the contract except for increase/decrease in taxes and duties on account of subsequent legislation.

4.0 DIVISION OF ORDER

BGL reserves the right to divide the quantity among more than one bidder at its sole discretion.

5.0 QUALITY ASSURANCE/QUALITY CONTROL:

- 5.1. The Contractor shall "prepare a detailed quality assurance plan for the execution of Contract for various facilities, which will be mutually discussed and agreed to.
- 5.2. The Contractor shall establish document and maintain an effective quality assurance system outlined in recognized codes.
- 5.3. The Purchaser while agreeing to a quality assurance plan shall mark the stages where they would like to witness the tests; review any or all stages of work at shop/site as deemed necessary for quality assurance.

6.0 QUANTITY VARIATION

The tendered quantity may vary depending upon the project requirement. BGL reserves the right to decrease/ increase the quantity depending upon its requirement.

7.0 DISPATCH INSTRUCTIONS

- 7.1 Seller shall obtain dispatch clearance from the Purchaser prior to each dispatch.
- 7.2. Copy of Inspection Release Certificate, Dispatch Clearance and statement showing the name of the Vessel/Trailers description and weight of material and shipping marks etc. to be submitted along with the documents.

8.0 INSPECTION

M/s. Bhagyanagar Gas Limited (BGL), reserves the right to engage their own personnel and or BGL's Inspection agency. All the charges towards all kinds of tests shall be included in the quoted rates. No additional payment to this effect will be made. Vendor

shall inform the readiness of the materials well in advance. BGL shall arrange third party inspection/ Own inspection at the vendor shop. The detailed procedure of manufacturing sequence and production plans to be submitted to BGL.

9.0 REJECTION

- 9..1. Any materials/goods covered under scope of supply, which during the process of inspection by appointed third party, at any stage of manufacture/fabrication, and subsequent stages, prior to dispatch is found not conforming to the requirements/specifications of the Purchase Requisition /Order, shall be liable for immediate rejection.
- 9.2. Supplier shall be responsible and liable for immediate replacement of such material with acceptable material at no extra cost or impact on the delivery schedule to EMPLOYER

10.0 TERMS OF PAYMENTS

The Payment shall be made in the following manner subject to completion of all contractual requirements as per tender document.

- a) 90% of supply value will be paid against receipt and acceptance of material by Owner & against receipt of the following documents : -
- i) Invoice in triplicate.
 - ii) Inspection Release note by Owner or his appointed or approved agency.
 - iii) GR/ LR.
 - iv) Packing List.
 - v) Insurance cover note covering transit insurance.
 - vi) A certificate from manufacturer that the all items/ equipment under supply including its component or raw material used with manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor this certificate will duly be endorsed by the contractor owning overall responsibility.
 - vii) Final technical file as per Technical Specifications/ Material Requisition including all test certificates.
 - viii) Performance Bank Guarantee(s) of 10% of Contract Value. If already submitted, a copy of the same.
 - ix) Document related to CENVAT credit to be claimed by Owner, if applicable.
 - x) Documents as specified in the Technical Specifications/Material Requisition, Volume-II of II of the Bid Document.
- b) 10% of supply value on completion of all works and final acceptance by the owner and submission of the following documents.
- i) Acceptance Certificate.
 - ii) No Claim Certificate.

11.0 COMPENSATION FOR DELAY (PRICE REDUCTION /LIQUIDATED DAMAGES)

The supplier agrees that time of supply of stores/works shall be of the essence of the Contract. If the supplier fails to supply stores/works within the respective scheduled / fixed

date for supply. Company may without prejudice to any other right or remedy available to the Company:

- a. Recover from the supplier as ascertained and agreed, genuine pre-estimate price reduction and not by way of penalty, a sum equivalent to 1/2 % per week or part thereof for each week's delay, prorated for part thereof beyond the scheduled supply date each subject to maximum of 5% of Delivery Order value, even though the Company may accept delay in supply after the expiry of the scheduled supply date.
- b. Arrange to get supply from elsewhere on account and at the risk of the Supplier, such decision of the Company being final and binding on the supplier OR
- c. Terminate the contract or a portion or supply of the supply work thereof, and if so desired, arrange for the supply in default by the supplier to be attained from elsewhere at the risks and costs of the supplier.

12.0 PERFORMANCE BANK GUARANTEE SECURITY DEPOSIT:

The bidder shall deposit security deposit @ 10% of the order value. The successful bidder shall furnish to BGL on signing this contract, an unconditional irrevocable Letter of Guarantee for Warranty from any Indian Nationalized Bank/ Scheduled Bank / reputed foreign bank having office in India other than co-operative banks acceptable to the Company for a sum of equivalent to 10% of the total value of this contract. Alternatively the Bidder can submit Security Deposit/Performance Bank Guarantee for warranty @10% of the contract value either in the form of Demand Draft. The Performance bank guarantee has to be submitted within 20 days of receipt of LOI/PO.

The Performance Guarantee should be valid for one year. Vender shall Guarantee/Warranty of the material for a period of **01 year** from the date of supply. In case of repeat order the bank guarantee shall be extended to meet the period of one more year reckoned from the date of supply.

13.0 REPEAT ORDER

BGL reserves the right to place a repeat order within Three months of expiry of order for upto 100% of order quantities on same rate, terms and conditions.

14.0 DELIVERY

The tentative delivery of the items location wise is as below:

Sl. No.	Quantity in Nos.	Location	Delivery Schedule
1/2" Isolation Valve			
1	1,000	Hyderabad	01 Month from LOI/PO
2	1,000	Vijayawada	01 Month from LOI/PO
3	1,000	Kakinada	01 Month from LOI/PO

The bidder shall confirm from BGL in writing, for supplying each consignment, the quantities of each consignment can vary depending on the requirement by BGL. No extra payment shall be made for the transportation and deemed to be included in the quoted price.

Valve delivery shall be in a single lot at each location as per the schedule.

15.0 VALIDITY OF CONTRACT

The contract/order shall be valid for a period of Six (06) months from the date of Issue of the contract.

SECTION – 10

TIME SCHEDULE

TIME SCHEDULE

Item Description

Completion Period

Isolation Valves

Design, Engineering, Testing, Supply
(FOT Site basis) including packaging
Forwarding, transportation, etc.

01 month from date of Fax of Intent/PO

Note: Price Reduction Schedule (PRS) will be based on contract value for the items covered under this schedule.

SECTION – 11

**TECHNICAL SPECIFICATIONS FOR ISOLATION
BALL VALVE**

Contents

<u>Sl. No.</u>	<u>Description</u>
1.0	INTENT OF SPECIFICATION
2.0	SCOPE OF WORK/ SUPPLY
3.0	REFERENCE STANDARDS AND SPECIFICATIONS
4.0	MATERIAL SPECIFICATION FOR ISOLATION VALVES
5.0	INSPECTION
6.0	DATA SHEET

1.0 **INTENT OF SPECIFICATION**

The intent of this specification is to establish minimum requirements to manufacture and supply of Isolation & Appliance Ball Valves used for supply of natural gas.

2.0 **SCOPE OF SUPPLY**

- 2.1 The scope of the tenderer will include manufacture/ supply, inspection/ testing/ marking/ packaging/ handling and despatch of Isolation & Appliance Ball Valves, as indicated in the Material Requisition & Schedule of Rates, meeting all the requirements as laid down in manufacturing standard ASME B16.33 or conforming to specifications laid in BS EN331 and should be UL listed or approved by any certified agency for Gas application.
- 2.2 All codes and standards for manufacture, testing, inspection etc. shall be of latest edition.
- 2.3 This specification defines the requirements which must be met by Isolation and Appliance Valve used to construct aboveground networks for natural gas distribution.

3.0 **Reference Standards and Specifications :**

EN 682	Air-tight rubber seals-specification for air tight seal materials for gas and hydrocarbon fluid transfer piping.
EN 1555-1	Plastic piping systems for combustible gas distribution. Polyethylene (PE). Part 1. General Information.
EN 1555-3	Plastic piping systems for combustible gas distribution. Polyethylene (PE). Part 3. Accessories.
EN 1555-7	Plastic piping systems for combustible gas distribution. Polyethylene (PE). Part 7. Conformity evaluation.
ISO DIS 11413	Preparation of test assemblies between a polyethylene (PE) pipe and an electro fusion fitting.
EN 728: 1997	Plastics piping and ducting systems-Polyolefin pipes and fittings- Determination of oxidation induction time.
PrEN 1555-1	Fuels-Polyethylene (PE)-Part 1: General
EN 1555-3 prEN 1555-7	Plastic piping systems for the supply of gaseous fuels-Polyethylene (PE)-Part 7: Assessment of conformity.
PrEN 12099	Plastic piping systems – Polyethylene piping materials and components -Determination of volatile content.
PrEN 12118	Plastic piping systems- Determination of moisture content in plastics by coulometry.

4.0 **MATERIAL SPECIFICATION FOR ISOLATION VALVES**

4.1 **Technical Data Sheet**

(Please refer Data Sheet)

4.1.1 **Item**

Isolation Ball Valve with Full Bore, NTP Female (Conforming to ANSI B1.20.1) end for natural gas application.

4.1.2 **Sizes:** 1/2" ONLY

4.1.3 **Body:** Hot Pressed/Forged Brass, Nickel/Chromium Plated.

4.1.4 **Ball**

Hard Chrome/ Nickel Plated Hot Pressed/ Machined Brass Bar with Teflon Seat.

4.1.5 With operating Knob and locking arrangement with sealing wire and lead seal (Without Key). Valve full open/ close position shall be at 90°.

4.1.6 Maximum Operating Pressure : 6.0 Bar (g)

4.1.7 Hydrostatic Test Pressure : 9.0 Bar (g)

4.1.8 **Markings**

Markings shall be provided & shall include:

- i) Manufacturer's name or trade mark Model designation.
- ii) Rate working pressure in Bar.
- iii) Direction of flow.

4.1.9 **Leakage**

The permissible external/ internal leakage shall be specified by the vendor, with reference to relevant code. However, in no case the leakage in both the cases shall exceed 1 ml/ min at maximum working pressure specified.

4.1.10 **Leak Tightness**

All Valves shall be leak tightness tested at 1.5x 4bars for a period of 15 seconds and no leakage is permitted. This test shall be performed as per clause no. 4.2 of ASME B 16.33.

4.1.11 **Temperature Resistance test**

This test shall be carried out as per 4.3 clause of ASME B 16.33.

4.1.12 **Mechanical Strength**

- i) The body of the valves shall be capable of withstanding without deformation or leakage at 125 Nm torques, as applied to a pipe being connected to the valve.
- ii) Valve shall be capable of withstanding without deformation or leakage, when bending moment as per Table 04 of ASME B 16.33, if applied to a pipe connected to the valve.
- iii) The valves shall be capable of withstanding 25 Nm impact without breakage or leakage.
- iv) Vendor shall submit Model number along with catalogues in English along with un-price bids.
- v) Maximum turning torque to operate the valve as per table 5 of ASME B 16.33.

5. **INSPECTION**

- i) SUPPLIER shall submit to CLIENT/CLIENTS representative for approval and also provide required certification as mention in MR.

- ii) Inspection shall be carried out as per Technical Specifications and approved Inspection Test Plan.
- iii) SUPPLIER shall furnish all the material test certificates, proof of approval/license from specified authority as per specified standard, at the time of final inspection of each supply lot of material. Also, all above mentioned certification to be furnished in soft copy to M/S BGL.
- iv) Every after third party inspection, owner reserve to right to select a sample randomly from each manufacturing batch and have these independently tested should the results of these tests fall outside the limit specified in BGL technical specification, then BGL reserve to right to reject all production supplied from the batch.

5.1 TESTING

The Isolation valves shall be tested as per EN331/ASME B 16.33 only. Supplier shall submit detailed data sheet and QCT for approval by owner/owner's representative before commence the production. Testing shall be carried out as per approved QCT.

6. DATA SHEET

S.NO.	DESCRIPTION	DATA
1.00	PROCESS DATA	
1.01	Fluid	Natural gas
2.00	OPERATING CONDITION	
2.01	Minimum Pressure	0.1 bar (g)
2.02	Minimum temperature (°C)	0-45
3.00	DESIGN CONDITION	
3.01	Pressure	4 bar (g)
3.02	Temperature (°C)	0-50
4.00	VALVE DATA	
4.01	Size	1/2" & 3/4"
4.02	Type	Isolation Ball Valve with full Bore, NPT Female (Confirming to ANSI B1.20.1) ends for natural gas application with operating Leaver arrangement. Valve full open/close position shall be at 90°.
4.03	Rating	-
4.04	End Condition	End Condition should be NPT Female (Conforming to ANSI B1.20.1)
4.05	Body Material	Forged Brass (ASTM B 283, Alloy UNSC37700) with Nickel/ Chrome Plated.
4.06	Ball Material	Hard Chrome/Nickel Plated, Forged Brass Bar (ASTM B 283, Alloy UNSC37700) with Teflon Seat.
4.07	Stem	-
4.08	Seat & Seal	-
4.09	Fire Safe	-
4.10	Anti blow out	-
4.11	Antistatic	-
4.12	Extension Stem	-
4.13	Operator	Leaver arrangement
5.00	PAINTING	
5.01	Surface Preparation	-
5.02	Primer	-
5.03	Finish	-
5.4	Insulation	-

6.00	TEST	-
6.01	Hydrostatic shell test	
6.02	Test Pressure	9.0 bar (g)
6.03	Test medium	-
6.04	Hydrostatic seat test	9.0 bar (g)
6.05	Test Pressure	-
6.06	Test medium	-
6.07	Functional test	-
6.08	Test pressure	-
6.09	Leak test	-
6.10	Impact test	As per PTS
6.11	Bending test	As per ASME B 16.33/PTS
6.12	Torque test	As per PTS
6.13	Turning torque test	As per ASME B 16.33
6.14	Antistatic test	-
6.15	Fire test	-
6.16	Visual and dimensional examination	-
Note	Unless otherwise stated all tests will be witnessed by the purchaser	
7.00	QUALITY CONTROL	-
7.01	Material Certificates	EN-10204, 3.1 Certificate
7.02	All testing certificates	-

Note:

1. Minimum Nickel/Chromium plated on the ball & body of appliance valve shall be 25 Micron.
2. The above satisfied test in PTS/Data sheet are minimum. However, the other remaining/specified tests shall be done as per ASME B 16.33 (latest amendments).

SECTION 12

SCHEDULE OF RATES (SOR)



BHAGYANAGAR GAS
LIMITED

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Hyderabad, Vijayawada and Kakinada CGD Projects

VOLUME II
OF II

Bid Document No. BGL/317/2016-17

Bid Document No.: BGL/317/2016-17

Title: Procurement of ½” Isolation Valves for Hyderabad, Vijayawada and Kakinada CGD Projects.

Sl. No.	Description	Quantity (Nos)	Unit Price Ex works including cost of imported raw material/components & project, rates of customs duty thereon, packaging, forwarding but excluding ED & ST on finished goods (Rs)	Per unit Terminal Excise Duty (Rs)	Per unit Sales tax without C form (Rs)	Per unit Freight upto project site by road including transit insurance & all other taxes like octroi, entry tax etc (Rs)	Per unit FOT Site (Rs)	Total FOT project Site (Rs)
		(1)	(2)	(3)	(4)	(5)	(6)=(2+3+4+5)	(7)=(6 X 1)
1	Isolation Valve, Conforming to BGL's Technical Specification for Isolation Valve of following sizes, grades & specifications as indicated below:							
1.1	½” Isolation Valve	3,000						

Note:

- 1) Bidder must quote for all items of Price Schedule (SOR)
- 2) Inspection shall be carried out at Vendor's work place by Owner/ Consultant.
- 3) Excise Duty: _____ %.
- 4) Sales Tax: _____% with Form C.
- 5) Sales Tax: _____ % without Form C.
- 6) LST without Concessional Form.....
- 7) LST with Concessional Form.....

Name of the Bidder :
Signature & Seal of the Bidder :