



BHAGYANAGAR GAS
LIMITED

**Procurement of Domestic Gas Pressure Regulators for
Vijayawada & Kakinada CGD projects.**

Bid Document No. BGL/436/2018-19

VOLUME
II OF II



BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**Procurement of Domestic Gas Pressure
Regulators for Vijayawada & Kakinada CGD
Projects.**

**UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/436/2018-19

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Bhagyanagar Gas Ltd.
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SECTION – 7
MATERIAL REQUISITION

Material Requisition

Project : Procurement of Domestic Gas Pressure Regulator for
Vijayawada & Kakinada City Gas Distribution Projects.

Client : M/s Bhagyanagar Gas Limited

Tender No. :

Sl. No.	DESCRIPTION	UNIT	QTY
	Design, detail engineering, manufacturing, assembly, factory testing inspection (in case of bidders with foreign manufacturing facility, The Price shall be inclusive of third party inspection charges), marking & packaging, supply of Regulators, handling, transportation, loading, unloading at BGL stores in the respective cities, documentation etc. & commissioning spares as detailed in the Technical specification.		
	<u>DOMESTIC REGULATORS</u>		
1	Pressure reduction of 4 to 6 bar (g) inlet to 21 mbar (g) outlet pressure with 2.5 SCMH actual maximum flow capacity of Domestic Regulator as per data sheet.		
A	Vijayawada	Nos	3,000
B	Kakinada	Nos	4,000

Note:

1. Applicable for Bidders with manufacturing facility in India only:- BGL/ representative or Third party inspection agency appointed by BGL/, if any shall carry out inspection of item no.1 during manufacturing / final inspection at the works of the manufacturer.
2. Applicable for Bidders with foreign manufacturing facility only: Third Party Inspection is to be included in the quoted prices. Arranging Third Party Internationally recognized Inspection agencies like Lloyds, ABS, SGS, TUV, DNV, BV, Engineers India Limited, or any other Third Party Inspection agency only with prior approval of BGL, for witnessing inspection and testing related to item no. 1, at the works of the manufacturer is in the scope of the bidder.



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SECTION – 8
SPECIAL CONDITIONS OF CONTRACT
(SCC)

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 along with 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.

Seller's scope shall include (a) Design, detail engineering, manufacturing of items as per Material Requisition technical specifications, (b) preparation of Quality Assurance / Quality control programme; (c) obtaining Owner's approval; (d) arranging Inspection and Testing certification; (e) Inspection by Purchaser's/Agency Designated by Purchaser, as applicable as per bid document and obtaining Inspection Release Note; (f) obtaining dispatch clearance; (g) Packing; (h) Loading on truck/trailer and Unloading of Gas Pressure Regulators at Project site; (i) providing all related services as detailed in the technical specification.

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 and as mentioned in Evaluation & Ordering criteria in BEC of Vol I of II.

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 (TPIA). All the charges towards all kinds of tests shall be included in the quoted rates. No additional payment to this effect will be made. 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.

The following shall be read in conjunction with Clauses of GCC (Goods)

- **90 % (Ninety percent) payment on receipt of goods at site and acceptance of the same along with following dispatch documents.**
 - i) Original Invoice in triplicate
 - ii) Inspection Release note by Owner or his appointed or approved agency.
 - iii) Original GR / LR
 - iv) Packing List
 - v) Insurance cover note covering transit insurance
 - vi) Performance Bank Guarantee(s) of 10% of Contract Value. If already submitted, a copy of the same.
 - vii) Document related to Input Tax Credit (ITC) to be claimed by owner, if applicable.
- **10% (ten percent) within 30 (thirty) days after receipt and acceptance of goods at site.**
 - i. Final Acceptance Certificate
 - ii. No Claim Certificate.

ii. **MODE OF PAYMENT**

All payments payable in Indian rupees against the contract shall be released by Owner through account payee cheque payable at par.

iii. **DEDUCTION AT SOURCE**

Purchaser will release the payment to the Seller after effecting deductions as per applicable law in force.

Purchaser will release payments by F&A Dept, BGL to the Contractor after offsetting all dues to the Purchaser payable by the Contractor under the Contract.

11.0 COMPENSATION FOR DELAY (PRICE REDUCTION /LIQUIDATED DAMAGES)

In case of delay in delivery of materials beyond contractually agreed delivery schedule, price reduction schedule will be applicable @0.5% of material value for the unsupplied portion per week of delay or part thereof, subject to ceiling of 5% (FIVE PERCENT) of the total order value. For details, please refer relevant clause of GCC-Goods.

The value referred in PRS clause is excluding taxes & duties.

12.0 PERFORMANCE BANK GUARANTEE SECURITY DEPOSIT:

Bidder will provide Performance Guarantee @10% of order value within 30 days of receipt of Fax of Acceptance (FOA) / Purchase Order (PO) from the Owner. The contract performance bank guarantee shall be valid 03(three) months beyond the expiry of Warrantee/Guarantee period. The Performance Guarantee shall be in form of either Demand Draft or Banker's Cheque or irrevocable Bank Guarantee and shall be in the currency of Contract (issued by any Indian Scheduled bank or a branch of an International Bank situated in India and registered with Reserve Bank of India as Scheduled Foreign Bank).

However, in case of Bank Guarantee from banks other than the Nationalized Indian bank, the bank must be a commercial bank having net worth in excess of Rs. 100 Crores or equivalent US Dollars and a **declaration** to this effect should be made by such commercial bank either in the bank guarantee itself or separately on its letterhead.

Performance Guarantee for 10% of order value shall be excluding taxes & duties.

BGL shall not be liable to pay any bank charges, commission or interest on the same.

Failure of the successful bidder to comply with the requirement of this clause shall constitute a breach of contract, cause for annulment of the award, forfeiture of the bid security and any such remedy the Owner may take under the Contract pursuant to GCC-Goods.

There is no exemption to MSEs including SSI units from submission of Security Deposit/ Contract Performance Bank Guarantee (CPBG).

13.0 REPEAT ORDER

BGL reserves the right to place a repeat order within Six (06) months from date of purchase order for up to 50% of order quantities on same rate, terms and conditions.



14.0 DELIVERY

The delivery of the items location wise is as per the Material Requisition. The Vendor to arrange transportation of these materials from the vendor shop to designated location of BGL yard in the above cities. No extra payment shall be made for the transportation and deemed to be included in the quoted price.

Bidder to deliver the materials at all locations as per the quantity estimated.

15.0 DELIVERY SCHEDULE

Delivery of the total order quantity will be completed as given below from date of Fax of Acceptance (FOA)/Purchase Order (PO) as mentioned in Section 9 (Time Schedule) of Bid Document:

Item Description	Completion period
Manufacture, Inspection, Testing, Supply (on FOT Site basis) including packaging forwarding, transportation, etc.	Within 4-5 weeks – 3,000 nos' from LOI Date Within 8 weeks – 4,000 nos' from LOI Date

16.0 PACKING, MARKING AND SHIPMENT

The Seller, wherever applicable shall after proper painting, pack and crate all goods for sea/air/road/rail transportation in a manner suitable to tropical humid climatic region in accordance with the internationally accepted practices and in such a manner so as to protect it from damage and deterioration, in transit by sea or air or road or rail and during storage at the storehouse. The Seller shall be held responsible for all damages due to improper packing. The Seller shall ensure sizing or packing of all oversized consignments in such a way that availability of carrier and/or road/rail route is properly taken into consideration.

For MARKING & PACKAGING of the Gas Pressure Regulator shall be as Section-III of Vol I of I.

Seller shall comply with the Packing, Marking and Shipping Instructions and Special Packaging Requirement of this Bidding Document.

17.0 INDEPENDENTSELLER

It is expressly understood and agreed that Seller is an independent party and that neither the Seller/its personnel are servants, agents or employees of Purchaser nor the Seller has any kind of interest in other sellers.

18.0 LIEN

Seller shall ensure that the Scope of Supply supplied under the Agreement shall be free from any claims of title/liens from any third party. In the event of such claims by any party, Seller shall at his own cost defend, indemnify and hold harmless Purchaser or its authorised representative from such disputes of title/liens, costs, consequences etc.

19.0 LIMITATION OF LIABILITY

Notwithstanding anything contrary contained herein, the aggregate total liability of Supplier under the Contract or otherwise shall be limited to 100% of contract value.

However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.

20.0 GOVERNINGLAW

Laws of India will govern the Agreement and Hyderabad courts will have exclusive jurisdiction on all matters related to Agreement

21.0 OWNER'S RIGHTS ANDREMEDIES

Without prejudice to Owner's right and remedies under Agreement, if SUPPLIER fails to commence delivery as per agreed schedule and/or in reasonable opinion of the OWNER, CONTRACTOR is not in a position to make up the delay to meet the intended purpose, the OWNER may terminate the AGREEMENT in full or part at SUPPLIER's default and may get supplies from other sources at SUPPLIER's risk and cost.

22.0 Clause no. 16.0 of GCC shall be appended with the following

Bidder shall arrange Transit Insurance and the cost of which shall be borne by bidder. Quoted price shall be inclusive of the same.

23.0 Clause no. 30.4 of GCC shall be appended with the following :

SETTLEMENT OF COMMERCIAL DISPUTES BETWEEN PUBLIC SECTOR ENTERPRISE(S) INTER-SE AND PUBLIC SECTOR ENTERPRISE(S) AND GOVERNMENT DEPARTMENT(S) THROUGH PERMANENT MACHINERY OF ARBITRATION (PMA) IN THE DEPARTMENT OF PUBLIC ENTERPRISES

In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitrator under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary / Additional Secretary. When so authorized by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

24.0 FAILURE & TERMINATION CLAUSE

Time and date of delivery shall be the essence of the contract. If the vendor/contractor fails to deliver the entire quantity of materials ordered/ complete the work or a part thereof within the contractual delivery/ completion period agreed to for such part or total quantity as per the delivery / time schedule or at any time repudiates the contract before the expiry of such period, BGL may without prejudice to any other right or remedy available to it recover damages for breach of the contract in any manner stipulated hereunder:-

- (a) Recover from the vendor/contractor an agreed amount towards Price Reduction Schedule and not by way of penalty a sum equivalent to 1/2% (half percent) of the contract price of the whole unit per week for such delay or part thereof (this is a genuine pre-estimate of damages duly agreed by the parties) which the vendor/contractor has failed to deliver within the period fixed for delivery in the schedule, where delivery thereof is accepted after expiry of the aforesaid period.

It may be noted that such recovery of PRS may be up to 5% of the contract price / of the total quantity of items of materials / equipment which the contractor has failed to deliver within the period fixed for delivery; or

- (b) Purchase or authorise the purchase elsewhere on the account and at the risk of the contractor, of the materials not so delivered or others of a similar description, by serving prior notice to the contractor / supplier without cancelling the contract in respect of the instalment not yet due for delivery;

or

- (c) Cancel the contract or a portion thereof by serving prior notice to the contractor and if so desired, purchase or authorise the purchase of the materials not so delivered or others of a similar description (where such materials exactly complying with particulars are not, in the opinion of the purchaser, which shall be final, readily procurable) at the risk and cost of the contractor. If the contractor had defaulted in the performance of the original contract, the purchaser shall have the right to ignore his tender for risk purchases even through the lowest. Where the contract is terminated at the risk and cost of the firm under the provisions of this clause, it shall be solely upto the purchaser to exercise his discretion to collect or not, the security deposit from the firm, on whom the contract is placed, at the risk and expense of the defaulting firm.

- (d) Where action is taken under sub-clause (b) or sub-clause(c) above, the contractor shall be liable for any loss which the purchaser may sustain on that account, provided the purchase or if there is an agreement to purchase, such agreement is made, in case of failure to deliver the materials within six months from the date of such failure and in case repudiation of the contract within six months from the date of cancellation of contract. The contractor shall not be entitled to any gain on such purchase and the manner and method of such purchase shall be at the entire discretion of the purchaser. It shall be necessary for the purchaser to give a notice of such purchase on the contractor.

- (e) It may further be noted that clause (a) above provides for recovery of PRS on the cost of contract price of delayed supplies (whole unit) at the rate of 1/2% (half percent) of the contract price of the whole unit per week for such delay or part thereof up to a ceiling of 5% of the contract price of delayed supplies thus accrued will be recovered by the paying authorities of the purchaser specified in the supply order, from the bill for payment of the cost of the material submitted by the vendor/contractor in accordance with terms of supply order, or otherwise.

- (f) Notwithstanding anything stated above equipment and materials will be deemed to have been delivered only when all its components, parts are also delivered. If certain components are not delivered in time the equipment and material will be considered as delayed until such time all the missing parts are also delivered.



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25.0 General Conditions

- (i) When the materials are dispatched to the consignee intimation must also be given to this effect. Reference to the supply order should in variably be given in all the relevant correspondence.
- (ii) The tender is liable to be rejected in case the tender does not comply with tender stipulations or the goods, works and services offered do not conform to the required specifications indicated therein.
- (iii) Any other terms and conditions offered by the firm and not included in the order/contract, are not acceptable to BGL.



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SECTION – 9
TIME SCHEDULE



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TIME SCHEDULE

Item Description	Completion period
Manufacture, Inspection, Testing, Supply (on FOT Site basis) including packaging forwarding, transportation, etc.	Within 4-5 weeks – 3,000 nos' from LOI Date Within 8 weeks – 4,000 nos' from LOI Date

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



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SECTION – 10
TECHNICAL SPECIFICATIONS
FOR
GAS PRESSURE REGULATORS

1.0 PROJECT DETAILS

Bhagyanagar Gas Limited (BGL) is a joint venture of M/s GAIL (India) Limited and M/s Hindustan Petroleum Corporation Limited (HPCL) operating CNG & City Gas Distribution in the states of Telangana and Andhra Pradesh.

Presently, Bhagyanagar Gas Limited is expanding the CNG & City Gas Distribution Network (CGDN) to supply Natural Gas to domestic, commercial, industrial and automobile Consumers in the states of Telangana and Andhra Pradesh.

This technical specification covers the requirement of gas pressure regulators for CGDN at Vijayawada & Kakinada.

2.0 BRIEF SCOPE OF WORK

Supplier's scope of work shall include Design, detail engineering, manufacturing, assembly, factory testing, inspection (as applicable as per bid document), marking & packaging, supply of Regulators, handling, transportation, loading/ unloading at BGL stores in the respective sites, documentation etc. & commissioning spares.

3.0 REFERENCE STANDARDS

Unless otherwise specified, the latest editions of the standards mentioned herein in this specification, including all addenda and revisions, shall apply. All pressures mentioned in this specification are gauge pressures. The vendor shall furnish (along with the technical bid) a copy of the approval documents, certificates (in English language only) for each of the offered model, for compliance to the requirements of EN 88-1 (latest amendments) standard(s) as applicable.

4.0 PERFORMANCE REQUIREMENT AND STANDARD FEATURES

- a) Satisfactory operation of regulator for the inlet & outlet pressure as specified in the datasheet.
- b) Inlet / Outlet connection (to be specified by the vendor) has to be approved by BGL/ and should be of screwed type as per ISO 7 Part 1: 1994 or any other type of connection (only with prior approval of BGL).
- c) Suitable for use with natural gas at nominal specific gravity of 0.65 & operating in ambient temperature of up to 45 deg C.
- d) Under Pressure Shut off (UPS) device to protect against downstream under pressure with a pressure setting as indicated in the data sheet with Auto reset facility.
- e) The regulator shall be also capable of operating either in the vertical or horizontal plane & shall be constructed to be fully resistant to corrosion when installed in outdoor locations.

Variant design (if any) offered by the party has to be duly approved by BGL/. For specific requirements, refer datasheets.

BGL/ shall approve the regulator type & model to be supplied & full technical details shall be supplied along with the technical bid

5.0 MARKING & PACKAGING

The regulator body shall be indelibly and clearly marked with the following details:

- Capacity of the regulator (2.5scmh)
- Inlet pressure range
- Outlet pressure range
- Regulation accuracy
- Direction of flow
- Name of the manufacturer and the name of the model
- Serial number of the regulator
- Month and year of manufacturing

Each regulator shall be sealed properly before dispatch, such that the factory setting cannot be changed on site. Each regulator is to be individually packed in a transparent plastic cover (of adequate thickness) to protect the regulator from ingress of dirt and water, and the same shall be packed in an individual box. A total of 100 copies of instruction manuals shall be attached in the first lot. The description of the contents of each of these boxes shall be clearly mentioned on each of the individual box. A set of these individual boxes (5-10 Nos., as the case may be) shall be packed in a larger box; and the description of the contents of the larger box shall also be clearly mentioned on the box. The quantity of the regulators in the larger box shall be such that the box can be easily handled and stored, and it does not get damaged during the same.

6.0 QUALITY ASSURANCE

The Supplier will provide details of their quality assurance procedures during the assembly of the units and for final inspection following testing BGL/ reserves the right to visit the Supplier's facilities without prior notice, and inspect test records and witness assembly and testing in progress.

7.0 GUARANTEE PERIOD

The gas pressure regulators shall be guaranteed against malfunction and degradation through corrosion or faulty workmanship for a period of **24 months from the date of delivery or 12 months from the date of commissioning of the Equipment**, whichever is earlier. BGL also reserves the right to charge the supplier, the costs incurred by BGL in rectifying or replacing the defective units within the guarantee period.

8.1 TECHNICAL EVALUATION REQUIREMENTS

- a) The Supplier is required to submit to BGL/ the details of the regulator to be supplied, including the manufacturing standards, model number, performance curve i.e., outlet pressure v/s flow at different inlet pressures, accuracy specifications, capacity at maximum and minimum inlet pressures along with bid for our technical evaluation of bid. All the technical documents / catalogues, etc., to be submitted along with technical bid shall be in English Language only.
- b) Any deviations from the specification should be highlighted and vendor may also quote advanced / latest models to reduce overall cost as an alternate.
- c) The data sheet should be filled up completely and should be enclosed with the Technical Bid.

- d) Compliance with Technical Specifications will be taken for granted if deviations are not specifically mentioned.

9.1 INSPECTION PLAN

- i) Testing & Inspection shall be carried out as per the Technical Specifications of EN88-I (latest amendments) as applicable as per approved Datasheet at the works of the manufacturer as per approved QAP.
- ii) BGL/ representative or Third-party inspection agency appointed by BGL/, if any shall carry out inspection during manufacturing / final inspection at the works of the manufacturer.
- iii) For bidders with Foreign manufacturing facility, arranging Internationally recognized Third Party Inspection agencies with prior approval of BGL/, for witnessing inspection and testing, at his workshop and/or his sub-vendors workshop as required shall be in bidder's scope. The prices towards the same to be included in the quoted prices.
- iv) Vendor shall furnish all the material test certificates, internal test / inspection reports for 100% material at the time of inspection of each supply lot of material.
- v) Review of Calibration certificates for all the measuring instruments at the time of inspection, i.e., used for checking and testing, along with the Master calibration certificate of the measuring instruments from which the instruments is calibrated.
- vi) All regulators should be wired up and sealed properly by the manufacturer after final inspection clearance and before dispatch. Regulators found in an unsealed condition will not be accepted at BGL stores.

Even after third party inspection, BGL/ reserves the rights to select a sample of regulators randomly from each manufacturing batch & have these independently tested for compliance with BGL/ Technical Specifications like dimensional tolerances, leakage testing, performance, accuracy, etc. Should the results of these tests fall outside the limits specified in BGL/ technical specification, then BGL/ reserves the rights to reject all production supplied from the batch.



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NATURAL GAS PRESSURE REGULATORS FOR DOMESTIC CONSUMERS		
GENERAL	Service	Natural Gas
	Qty.	As per PRICE SCHEDULE/MR of Tender
	Design	Direct acting spring control pressure regulator with in-built pressure reducing valve type balance regulating unit to ensure a constant outlet pressure having insufficient downstream pressure slam shut device & relief valve.
	Connections	Angular Inlet and Outlet connection
	Installation	Suitable for Outdoor Installation, Tamper proof and corrosion resistance for a life period of 20 years.
	installation position	Horizontal / Vertical
	Flow	Capacity
PRESSURE & TEMPERATURE	Inlet Pressure	4 to 6 bar
	Design Pressure	6 bar(g)
	Outlet pressure set point	21 mbar(g) (Factory Set Point) (Bidder shall necessarily submit the performance curve and available spring range)
	Over pressure cutoff point	Not required for Fail to close type & required for Fail to open type Regulator
	Under pressure cut off point	15 mbar(g) (Bidder shall submit Spring Range)
	Creep Relief Valve	Not required for Fail to close type & required for Fail to open type Regulator.
	Operating Temperature	0° C to 45 ° C, Design 60 ° C
BODY	Casing	Casing and Body of Pressure Die cast aluminum conforming to EN88-1 (latest amendments) standards.
	End Connections	1/2" NPT (Female loose nut with suitable washers) inlet and 3/4" NPT (Female loose nut with suitable washers) outlet confirming to ANSI B1.20.1 (Incase of end connections are differing bidder to provide suitable adaptors of same material of regulator & of approved quality to meet the specified end connections)
	Fire Resistance	As applicable
Internals	Diaphragm	Synthetic rubber
	Internals	Internal parts shall be Stainless steel, Brass seal of Nitrile rubber or aluminium.
Others	Filter	Essential(Inbuilt)
	Accuracy Class (%)	Class A2 as per EN 88-1 (latest amendments)
	Closing (lock up) pressure	as per EN 88-1 (latest amendments)
	Type of Reset	Auto only
Notes:		
1.	The regulator shall be indelibly marked with details of Max. Flow, Inlet and outlet Pressures	



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	range, direction of flow, name of the manufacturer, model, unique serial number, Date of Manufacturing etc.
	The Vendor shall submit, along with the offer, the manufacturing standards, Model number, performance curves, approvals of the statutory bodies and technical details of the model offered. Successful Vendor shall submit following documents during detail engineering in 3 sets of Hard copies & one set of Hard copy during supply of material.
2.	a) Dimensional outlet with mounting details with model number, part list and technical literatures. b) Connection by purchaser (Piping, Electrical etc.) c) Installation, Operation and Maintenance Instruction Manual. d) Testing and Inspection procedure. e) Test, calibration and certificate from statutory bodies Certificate. f) Performance curves
3.	End Connections shall be provided by Plastic Caps.
4.	Flow capacity in SCMh shall be calculated considering Maximum Outlet Pressure & Operating Temperature



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LIMITED

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Vijayawada & Kakinada CGD projects.**

Bid Document No. BGL/436/2018-19

VOLUME
II OF II

SECTION 11

SCHEDULE OF RATES (SOR)

**Procurement of Domestic Gas Pressure Regulators for
Vijayawada & Kakinada CGD projects.**

VOLUME
II OF II

Bid Document No. BGL/436/2018-19

Sl. No	Description	City	UoM	Quantity (a)	Unit Price Ex works incl. cost of raw material/ components, TPI charges, packaging, forwarding, (Rs.) (b)	Per unit freight charges, transit insurance including loading at vendor's works and un-loading at BGL's site but excl. GST, any other taxes & duties upto FOR Project site (c)	Per unit GST (Rs.) -----% (d) { for (b) & (c)}	Per unit FOT Site (Rs.) (e) = (b)+(c)+(d)	Total FOT project Site inclusive of all taxes and duties (Rs.) (f)=(a)x(e)
	Design, detail engineering, manufacturing, assembly, factory testing inspection (in case of bidders with foreign manufacturing facility, The Price shall be inclusive of third-party inspection charges), marking & packaging, supply of Regulators, handling, transportation, loading, unloading at BGL stores in the respective cities, documentation etc. & commissioning spares as detailed in the Technical specification								
	DOMESTIC REGULATORS								
1	Pressure reduction of 4 to 6 bar (g) inlet to 21mbar (g) outlet pressure with 2.5 SCMH actual maximum flow capacity of Domestic Regulator as per data sheet in bid document.	Vijayawada	Nos	3,000					
1	Pressure reduction of 4 to 6 bar (g) inlet to 21mbar (g) outlet pressure with 2.5 SCMH actual maximum flow capacity of Domestic Regulator as per data sheet in bid document.	Kakinada	Nos	4,000					
Grand Total amount incl. GST and all other applicable taxes & duties Rs. (in Words)									

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