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Bid Document No. BGL/645/2024-25



BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

Procurement of Domestic G-1.6 Post-paid Diaphragm Meters & Regulators for installation in Hyderabad, Vijayawada & Kakinada GA's

UNDER OPEN DOMESTIC COMPETITIVE BIDDING

Bid Document No.: BGL/645/2024-25

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SECTION-1 SPECIAL CONDITIONS OF CONTRACT (SCC)

1. 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 ever 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 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



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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.

- 1.9 The Bidder shall supply regulators, filters, CRV, SSV only from the approved list of manufacturers/make.
- 2.0 Weigh and measurement certificates and other relevant certificates must be submitted as per standard of Dept of Legal metrology standard, of Indian Government.

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) manufacturing of mentioned 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 and obtaining Inspection Release Note;
- (f) obtaining dispatch clearance;
- (g) Packing;
 - (h) Transit Insurance, loading on truck/trailer including loading and unloading of materials/spare kits at Bhagyanagar Gas's store/site.

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 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.

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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

Final inspection of the meters and regulators shall only be done by TPIA approved by BGL. All the charges towards all kinds of tests/TPIA cost shall be included in the quoted rates per unit. No additional payment to this effect will be made. The charges towards BGL's Inspection Agency, if engaged, shall be borne by Vendor.

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)

100 % (Hundred percent) payment of the supplied portion along with freight including taxes & duties will be paid on receipt & acceptance of goods at FOT site after adjustment of PRS, if any along with submission of following documents: -

- i) Original Invoice in triplicate in compliance with GST law in force
- 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 5% 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.

-For FINAL BILL, following documents are to be provided:

- v) No Claim & No due Certificate
- vi) Statement of Completion

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 or by electronic transfer.



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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/CONRACT PERFORMANCE SECURITY:

SD/CPBG @ 5% of Total order/contract value in case contract period is less than one year or 5% of Annualized order/contract value in case contract period is more than one year.

OR

Initial security deposit (ISD) @ 2.5% of total order/contract value in case contract period is less than one year or 2.5% of annualize order/contract value in case contract period is more than one year within 30 days of FOA/notification of award and deduction @ 2.5% of the RA bill subsequently from RA bills till the total amount of security deposit (including ISD and deduction amount) reaches 5% of Total order/contract value in case contract period is less than one year or 5% of annualized order/ Contract value in case contract period is more than one year.

The Performance Guarantee shall be in form of either Demand Draft or Banker's Cheque or bank transfer through NEFT/RTGS/IMPS into BGL account, 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). The Terms also to be read in line with Section Information to Bidders (ITB) (Vol I of II) of Bid Document.

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 upto 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 locations of BGL yard in respective cities. No extra payment shall be made for the transportation Sign & Seal of Bidder

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and deemed to be included in the quoted price.

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

15.0 CONTRACT PERIOD:

One Year from the date of placement of FOA/PO.

16.0 DELIVERY SCHEDULE

Delivery of the 1st lot of order quantity will be delivered within 45 days from the date of receipt of FOA/PO. The second lot shall be delivered within 45 days from the date of intimation of BGL.

Loca	Location Wise Delivery Schedule (Contract Period- 1Year)									
Sl. No.	Material Descriptions	Qty (Hyd.)1st Lot	Qty.(VJW) 1st Lot	Qty.(KK D) 1 st Lot	Qty (Hyd.) 2 nd Lot	Qty.(VJ W) 2 nd Lot	Qty.(KKD) 2 nd Lot			
Part	t A (Meters)									
1	Domestic Natural Gas Post-Paid /Mechanical Diaphragm Meters (G-1.6) (Normal/Reverse Flow) with meter bracket/ Clamps (1.2dm3CV)	15000	5000	5000	15000	0	0			
Part	t B (Regulators)									
1	Domestic Natural Gas Meter Regulators (110 mbar-21mbar) with ½" Inlet & ¾" Outlet bras union connector/adopters and Completable washers.	15000	2500	2500	15000	0	0			
2	Riser Regulators (6 Bar to 21 M bar) 6.5 SCMH with ½" Inlet & ¾" Outlet brass union connector/adopters and Complete washers.	0	2500	2500	0	0	0			

17.0 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 the Materials shall be as per Volume I of II

Seller shall comply with the Packing, Marking and Shipping Instructions and Special Packaging Requirement as per Vol I of II of this Bidding Document.

18.0 INDEPENDENT SELLER

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.



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19.0 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 authorized representative from such disputes of title/liens, costs, consequences etc.

20.0 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.

21.0 GOVERNING LAW

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

22.0 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.

23.0 TRANSIT INSURANCE (additional to Clause no. 16.0 of GCC)

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

24.0 WARRANTY

If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior to expiry of twelve(12) months from the date of commissioning of the equipment or prior to expiry of twenty four (24) months from the date of last shipment (particular delivery LOT for Groups) whichever is earlier, first expire, and the SELLER is notified thereof, SELLER shall, at his own expense and as promptly as possible, make such alterations, repairs and replacements as may necessary to permit the materials to function in accordance with the specifications and to fulfill the foregoing guarantees.

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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 invariably 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 there in.
- (iii) Any other terms and conditions offered by the firm and not included in the order/contract, are not acceptable to BGL.

26.0 LOCATION/SITE INFORMATION:

Location of site will be informed by BGL Engineer-In-charge OR as follows For Hyderabad

Bhagyanagar Gas Limited, Sy No. 1266, Mother Station,

CNG Gas Station, Opp. Nalsar University Adjacent to IPE Collage Shamirpet, Hyderabad-500078, Rangareddy, Telangana.

Location of site will be informed by BGL Engineer-In-charge OR as follows For Vijayawada

Plot No: 2,3, APIIC Industrial Park, Kondapalli (V), Ibrahimpatnam(M), Krishna District, Andhra Pradesh, Vijayawada-520007.

Location of site will be informed by BGL Engineer-In-charge of Kakinada

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SECTION - 2

MATERIAL REQUISITION & TECHNICAL SPECIFICATIONS

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Material Requisition

Project : City Gas Distribution

Client : M/s Bhagyanagar Gas Limited

Items : Domestic meter, meter regulators, Riser Regulator

Tender No. : B G L/645/2024-25

Sl. No.	Material Descriptions	Q Max	Size (NPT Thread)	Ra	ting	Unit	Qty
1	Design, Engineering, Supply and delivery of items upto FOT Site, Hyderabad as per the Material Requisition and Scope of Supply in Bid Document for Domestic G-1.6 Post-paid diaphragm meter						
1.1	G-1.6 Domestic post-paid diaphragm gas meter with meter clamp/bracket	2.5 m3/h	3/4"	G16		Nos	40000
2	Design, Engineering, Supply and delivery of items up to FOT Site, Hyderabad as per the Material Requisition and Scope of Supply in Bid Document for Domestic meter regulators						
2.1	Regulator (6-21Mbar) 6.5SCMH with Union brass adopter/connector and washers	6.5 m3/h	3/4"		-		5000
3	Design, Engineering, Supply and delivery of items up to FOT Site, Hyderabad as per the Material Requisition and Scope of Supply in Bid Document for Domestic meter regulators						
3.1	Domestic Meter Regulator (110-21Mbar) 2.5SCMH with Union brass adopter/connector and washers	2.5 m3/h	3/4"	-		Nos	35000
	Location Wise	e Qty.					
Sl. No.	Material Descriptions	Q Max	Rating	Unit	Qty (Hyd.)	Qty.(V JA)	Qty.(K KD)
1	Design, Engineering, Supply and delivery of items upto FOT Site, Hyderabad as per the Material Requisition and Scope of Supply in Bid Document for Domestic G-1.6 Post-paid diaphragm meter						
1.1	G-1.6 Domestic post-paid diaphragm gas meter with meter clamp/bracket	2.5 m3/h	G16	Nos	30000	5000	5000
2	Design, Engineering, Supply and delivery of items up to FOT Site, Hyderabad as per the Material Requisition and Scope of Supply in Bid Document for Domestic meter regulators						
2.1	Regulator (6-21Mbar) 6.5SCMH with Union brass adopter/connector and washers		-	Nos	0	2500	2500
3	Design, Engineering, Supply and delivery of items up to FOT Site, Hyderabad as per the Material Requisition and Scope of Supply in Bid Document for Domestic meter regulators	m3/h					
3.1	Domestic Meter Regulator (110-21Mbar) 2.5SCMH with Union brass adopter/connector and washers	2.5 m3/h	-	Nos	30000	2500	2500



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1. Scope of Supply:

The successful Bidder (the "Supplier") shall complete delivery of Goods along- with its incidental services (if any) as per Specification, Scope of Supply/Job within the period stated in Special Conditions of Contract.

Seller's scope shall include (a) manufacturing of above-mentioned 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 and obtaining Inspection Release Note; (f) obtaining dispatch clearance; (g) Packing; (h) Transit Insurance, loading on truck/trailer including and unloading of at Bhagyanagar Gas's store/site.

Owner approval to be obtained after third party Inspection & Testing.

2. Technical Specifications

The technical specifications & drawings for the required items are plotted below. However, BGL will finalize the drawings of the item with the vendor after the placement of order:



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	NATURAI	L GAS REGULATORS- DOMESTIC REGULATORS
	Service	Natural Gas
	Qty	As per SOR/ Material Requisition of Tender
RAL	Design	Direct acting single stage pressure regulator with spring control and diaphragm with in-built pressure balance regulating unit to ensure a constant outlet pressure having excess pressures vent/relief hole.
GENERAL	Connections Orientation	L-type/90degree Inlet (1/2" NPT female loose nut /union threaded) and Outlet connection (3/4" NPT female loose nut /union threaded) with brass union connector/adopter and set of washers.
	Installation	Suitable for Outdoor & Indoor Installation, Tamper proof and corrosion resistance for a life period of 15-20years.
	Installation position	Horizontal/ Vertical
	Capacity	2.5cum/hr (Actual)
Ш	Inlet Pressure	40 mbar to 160mbars(g)
JR	Design Pressure	500mbars(g)
PERAT	Outlet pressure set point	21mbar(g) (Factory Set Point) (Bidder shall necessarily submit the performance curve and available spring range)
E, TEM	Over pressure cut off point	40mbar(g) (Bidder shall submit Spring Range)/Bidder Design as per standards
ESSUR	Under pressure cut off point	11-15mbar(g) (Bidder shall submit Spring Range)
FLOW, PRESSURE, TEMPERATURE	Creep Relief Valve	NA (Only vent pin hole for venting of over pressure (more than 40 mbar) the position of the atmospheric venting shall not be towards vertically top to avoid entry off foreign material into the regulator.
П	Operating Temperature	0°C to 55°C, Design (-20°C to +60°C ambient)
	Casing	Casing and Body of Die cast aluminum/ Ductile Iron/ steel conforming to ASTM A216 WCB and water-weatherproof IP 65 / corrosion resistant for outdoor installation.
4	End Connections	1/2" NPT (Female brass adopter/connector with suitable washers) inlet and 3/4" NPT (Female brass adopter/connector with suitable washers) outlet confirming to ANSI B1.20.1 All the end connections/ fittings including loose nuts/adopter/connector, etc shall be of Brass material.
BODY		In case of end connection size are differing bidder to provide suitable adaptors, fittings, etc. of Brass as per IS:319 of approved quality to meet the specified end connections.
	Fire Resistance	As applicable
NAL	Diaphragm	Synthetic rubber
INTERNAL	Internals	Internal parts shall be Stainless steel, Brass seal of Nitrile rubber or aluminum.



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	Filter	Essential (Inbuilt) (if not inbuilt same shall be supplied separately)						
70	Accuracy Class (%)	Complying to standards EN 88-1/2 (or) Equivalent						
ERS	Closing (lockup) pressure	SG 10 complying with EN 88-1/2 (or) Equivalent						
OTHERS	Failure Position	Closed						
	Type of Reset	Auto Reset						
Notes:	s:							
1.	The regulator body shall be indelibly and clearly marked with Max. Flow, Inlet & Outlet Pressure Range, UPSO, OPSO, capacity, Accuracy, Flow Direction, Manufacturer Name & Model, Serial No., Manufacturing Month & Year, etc.							
	Successful Vendor shall submit following documents during detail engineering/ supply of material							
	a) Regulator data sheet with make & model number and technical literatures							
2.	b) GA dimensional drawing with mounting details, model number, part list.							
	c) Performance curve							
	d) Testing and Inspection procedure							
	e) Test, calibration and certificate from statutory bodies.							
	f) Installation, Operation and Maintenance Instruction Manual.							
3.	100% factory tested and sealed.							
4.	End Connections shall be provided by Plastic Caps.							
5.	Flow capacity in SCMH shall be calculated considering Outlet Pressure & Operating Temperature							



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Type Reference Standard	G-1.6, Domestic Diaphragm Gas Meter Meters- Compliance as per EN-1359:2017 (or latest), PNGRB
Reference	Meters- Compliance as per EN-1359:2017 (or latest), PNGRB
	1 1 //
	regulatory, OIML R137-1&2, W&M Certification
	As indicated in Clause4.0-Codesand Standards
Make & Model No.	Vendor to specify
Installation	Suitable for outdoor/ Indoor installation, tamper proof, corrosion resistance
	for life period of 10-15 years
Mounting	Wall/ Pole mounted.
Mounting Accessories	Required. Shall be provided with the meter
Flow/ Service (For B.1)	G-1.6: Qmax: 2.5m3/hr, Qmin:0.016m3/hr, Qty.: As per MR
Accuracy	Class1.5 [Qmin to 0.1Qmax±3%, 0.1 Qmax to Qmax±1.5%]
-	150:1 or better
Cyclic Volume	1.2 ltrs./dm3.
<u> </u>	21-300 mbar(g)
·	0.5 bar(g)
	0.5 bar(g)
=	3 mbar or as per EN-1359:2017 (or latest)
drop	•
Density Kg/ Sm3	0.73
Operating Temperature	0°C to 55°C Design 60°C (-20 to +60 degree C ambient temp.)
Centre to Centre Distance	110 +/5mm
Flow Direction	As per MR and to be marked on meter body. (Normal)
Case work/ Body	Steel Alloy with Suitable for outdoor/ Indoor Installation, tamper proof
	and corrosion resistant powder coated steel casing.
Corrosion protection	Suitable coating on inside and outside of casing.
End Connections (Two-	3/4" NPT (M) inlet and outlet confirming to ANSI B1.20.1 (In case the end
pipe version)	Connection size is differing, bidder to provide suitable adapters of Brass to me
	the specified end connections)
Fire resistance	As per EN 1359-2017/ equivalent
Color of Meter	Powder Coated Blue/Gray
Meter Case Sealing	Effective Sealing as per governing standard
Max. Index reading	8-10 Digits with auto reset facility/Digital Display
Unit	CM (Cubic meter)/m3
Ingress protection	IP 65 or better
Facility	Meter should be provided with External AMR/MIU connection provision
Pulse output type	Inductive/ Magnetic (Provision should be available)
	NA
•	
	NA
	NA All meter internals shall be non-metallic to prevent from tampering with
	Flow/ Service (For B.1) Accuracy Rangeability Cyclic Volume Normal Working Pressure Max. Working Pressure Design Pressure Max. Allow able pressure to drop Density Kg/ Sm3 Operating Temperature Centre to Centre Distance Flow Direction Case work/ Body Corrosion protection End Connections (Twopipe version) Fire resistance Color of Meter Meter Case Sealing Max. Index reading Unit Ingress protection



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		magnet			
	Leak Testing	Meter pressurized withairat1.5 MAOP of the meter, immersed in water for			
		observance of leakage			
	Sealing arrangement	Provision to be made by vendor			
	Marking on the meter	Required (Company Name, Logo, Manf. Months/Year, EN, W&M, OIML			
တ္ခ		Standards)			
OTHERS	EN/ MID marking on the	Required			
	meter				
	Reverse flow deterrents	Reverse cot restrictor to be provided. Reverse rotation of index is not allowed			
	Warning Sticker	Do's & Don't waterproof warning sticker (yellow color)			
	Meter Bracket	Powder Coated (canary yellow) 3mm thick & 20-25mm width with screw			
		fitting provisions			



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		GULATORS- RISER REGULATORS (6 bar to 21mbar) 6.5SMCH
	Service	Natural Gas
(AL	Qty Design	As per SOR/ Material Requisition of Tender Direct acting spring control pressure regulator with in-built two stage pressure reducing valve type balance regulating unit to ensure a constant outlet pressure having excess pressures lam shut device, in sufficient
GENERAL	Connections Orientation	downstream pressures lam shut device & relief valve. Online Inlet (1/2" NPT threaded) and Outlet connection (3/4" NPT threaded) with brass union connector/adopter and set of washers
	Installation	Suitable for Outdoor Installation, Tamper proof and corrosion resistance for a life period of 20years.
	Installation position	Horizontal/ Vertical
	Capacity	6.5cum/hr (Actual)
Œ	Inlet Pressure	4 bars(g)
TUF	Design Pressure	6 bars(g)
APERA	Outlet pressure set point	21mbar(g) (Factory Set Point) (Bidder shall necessarily submit the performance curve and available spring range)
E, TEN	Over pressure cut off point	40mbar(g) (Bidder shall submit Spring Range)
ESSUR	Under pressure cut off point	10-15mbar(g) (Bidder shall submit Spring Range)
FLOW, PRESSURE, TEMPERATURE	Creep Relief Valve	32-38 mbar(g) the position of the atmospheric venting shall not be towards vertically top to avoid entry off foreign material into the regulator.
Щ	Operating Temperature	0°C to 55°C, Design (-20°C to +60°C ambient)
	Casing	Casing and Body of Die cast aluminum/ Ductile Iron/ steel conforming to ASTM A216 WCB and water-weatherproof IP 65 / corrosion resistant for outdoor installation.
	End Connections	1/2" NPT (Female brass adopter/connector with suitable washers) inlet an 3/4" NPT (Female brass adopter/connector with suitable washers) outlet confirming to ANSI B1.20.1 All the end connections/ fittings including loose nuts/adopter/connector, e shall be of Brass material.
BODY		In case of end connection size are differing bidder to provide suital adaptors, fittings, etc. of Brass as per IS:319 of approved quality to meet t specified end connections.
	Fire Resistance	As applicable
¥ z	Diaphragm	Synthetic rubber
N K	Internals	Internal parts shall be Stainless steel, Brass seal of Nitrile rubber or aluminum.



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	Filter	Essential (Inbuilt) (if not inbuilt same shall be supplied separately)				
7.0	Accuracy Class (%)	Complying to standards EN 334/EN 88-1/2 (or) Equivalent				
IER!	Closing (lockup) pressure	SG 10 complying to EN 334/EN 88-1/2 (or) Equivalent				
OTHERS	Failure Position	Closed				
	Type of Reset	Manual/ Auto (Vendor to confirm)				
Notes:						
1.	The regulator body shall be indelibly and clearly marked with Max. Flow, Inlet & Outlet Pressure Range, Accuracy, Flow Direction, Manufacturer Name & Model, Serial No., Manufacturing Month & Year, etc.					
	Successful Vendor shall submit following documents during detail engineering/ supply of material					
	g) Regulator data sheet with make & model number and technical literatures					
2.	h) GA dimensional drawing with mounting details, model number, part list.					
	i) Performance curve					
	j) Testing and Inspection procedure					
	k) Test, calibration and certificate from statutory bodies.					
	I) Installation, Operation and Maintenance Instruction Manual.					
3.	100% factory tested and sealed.					
4.	End Connections shall be provided by Plastic Caps.					
5.	Flow capacity in SCMH shall be calculated considering Maximum Outlet Pressure & Operating Temperature					



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Bid Document No. BGL/645/2024-25

SECTION – 4

SCHEDULE OF RATES (SOR)

REFER E-TENDER NO.: <u>BGL/645/2024-25</u> IN E-TENDERING WEBSITE /PORTAL -

(https://petroleum.ewizarde.com/)
FOR SCHEDULE OF RATES

Sign & Seal of Bidder Page 19 of 21



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	S	CHEDULE C	F RATES	(SOR)				
		Financial B		,				
	Bid Docum	ent ref: BGL/	645/2024-2	25, dtd.22.0	03.2025			
	Domestic (G-1.6)	Post-paid D	Diaphragn	n Meters a	& Regulators	•		
	(Annual ra	te contract (A	RC) for pe	riod of on	e year)			
			Name o	f Bidder:				
					Uni	it Price (II	NR)	
Item Nos.	DESCRIPTION	HSN/SAC Code	UOM	QTY	Unit Price up to FOR site incl. of all taxes & duties,excl. GST, loading & unloading and Transit Insurance	GST	Total Unit Price including GST	Total Price up to FOT site incl. of all taxes & duties, incl.GST, loading & unloading and Transit Insurance
					(INR) (figures)	%	Amount (INR)	(INR) (figures)
1	2	3	4	5	6	7	8=6+7	9=5*8
PART A:								
1	Supply of Domestic G-1.6 Post-Paid Diaphragm Meters with male ¾" NPT end connections (Normal) with clamp/meter bracket (Do's & Don't stickers)		No's	40000				
PART B:								
2	Meter Regulator (110-21mbar) with ½" Inlet & ¾" outlet brass union connector/adopter 90degree end connections with suitable washers		No's	35000				



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