



BHAGYANAGAR GAS LIMITED
(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**Procurement of THERMO PLASTIC HOSES for Loading/
unloading and CNG dispensing activities at Hyderabad,
Vijayawada & Kakinada CGD's**

**UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/452/2018-19

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MATERIAL REQUISITION



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MATERIAL REQUISITION

Sr. No.	Item Description	Unit	Qty	Hyderabad	Vijayawada	Kakinada
	<u>SOR Part – A</u>					
1	Car Filling hose					
1.1	Car Long Filling Hose (5CNG6 Working Pressure 5000 PSIG) Electrical Conductive thermoplastic filling hose 3/8" ID with spring guard (3 meter length) both end carbon steel 9/16" UNF(F) swivel nut	nos	40	25	10	5
	Car Short Filling Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 3/8" ID with spring guard (0.7 meter length) both end carbon steel 9/16" UNF(F) swivel nut	nos	40	25	10	5
1.2	Car Long Vent Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard (3 meter length) both end carbon steel 7/16" UNF(F) swivel nut	nos	40	25	10	5
	Car Short Vent Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard (0.7 meter length) both end carbon steel 7/16" UNF(F) swivel nut	nos	40	25	10	5
2	Bus Filling Hose					
2.1	Bus long filling hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 1/2" ID with spring guard (3mtr. length) both end carbon steel 3/4" UNF(F) swivel nut.	nos	10	6	4	0



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	Bus short filling hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 1/2" ID with spring guard (0.7 mtr. length) both end carbon steel 3/4" UNF(F) swivel nut.	nos	10	6	4	0
2.2	Bus Long vent hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard (3mtr. length) both end carbon steel 7/16" UNF(F) swivel nut.	nos	10	6	4	0
	Bus Short vent hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard (0.7 mtr. length) both end carbon steel 7/16" UNF(F) swivel nut.	nos	10	6	4	0
2.3	5CNG6, 3/8" ID flexible hose 5000 PSI with 1/4" NPTM connection both side OAL=18" long for CNG application as per standard NFPA-52, AGA/CGA, ANSI-4.2112.52 & AGA-93	nos	50	30	10	10
	<u>SOR Part – B</u>					
1	LCV FILLING HOSE ASSEMBLY (5CNG6 Working pressure 5000 PSIG) LCV FILLING HOSE LENGTH 1.5 FEET END TO END CONNECTIONS 3/8" TUBE WITH NUT & FERRULE	nos	100	60	30	10

Note: Bidder shall indicate the following rates considered in the prices indicated in the Price Schedule above. Bidder shall note that any error in estimating these taxes & Duties will be to Bidder's Account.



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SECTION – 8

SPECIAL CONDITIONS OF CONTRACT (SCC)



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SPECIAL CONDITIONS OF CONTRACT (SCC)

1.0 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 within 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 include 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.



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- 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

- 2.1 The Scope of Supply shall include supply of *Thermoplastic hoses* as applicable on FOT Site Basis and shall be as set out at MR Section-7, Technical Specifications for Thermoplastic hoses given in Section-10 of Volume-II of tender document and supplemented by all stipulation in the total tender document.

3.0 TERMS OF PAYMENTS

The Payment shall be made progressively against receipt of each lot at site within 15 days from receipt of bills in the following manner.

- 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.

1. INLAND TRANSIT INSURANCE FOR PROCUREMENT OF GOODS

Bidder shall arrange Transit Insurance and the cost of which shall be borne by bidder. Quoted price shall be inclusive of the same. Bidder will be required to submit documentary proof for the transit insurance before dispatch.

Sign & seal of bidder

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2. LOCATION & ADDRESS OF INVENTORY CONSIGNEE & STORES:

To be intimated separately by EIC.

3. DURATION OF THE CONTRACT:

Three (03) months from the date of placement of purchase order (PO). Prices quoted to remain valid and firm for the entire duration of the contract and no escalation shall be considered for the entire duration of the contract.

**4. SECURITY DEPOSIT/ CONTRACT PERFORMANCE GUARANTEE:
As per GCC.**

5. BGL reserves the right to operate any SOR for the full quantities or part quantities or nil quantities as per the site conditions without assigning any reason. In this case; BGL's decision will be final and binding. BGL reserves the right to vary the quantity of any SOR without any change in terms and conditions.

6. PRICE REDUCTION SCHEDULE FOR DELAYED DELIVERY (PRS/ LD):

The price reduction schedule shall be @ **0.5%** per week of delay or part thereof subject to maximum of **5%** of **total undelivered portion of contract value**.

Price reduction for failure to meet technical parameters as mentioned in technical specification shall be separately applicable and shall be in addition to price reduction on account of failure of completion of supply.

7. GUARANTEE:

As per GCC.



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SECTION – 9
TIME SCHEDULE



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TIME SCHEDULE

FOT Hyderabad/ Vijayawada site basis.

The delivery schedule for all Hoses shall be within 03 months from date of LOI/PO.

The bidder must give unconditional confirmation to Time Schedule.

Signature of Authorized Signatory:.....

Name:.....

Designation:.....

Seal:.....



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SECTION – 10

**TECHNICAL SPECIFICATIONS-
CONDUCTIVE CORE THERMOPLASTIC HOSES**



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1.0 SCOPE OF WORK

- 1.1 The scope of this specification include design, manufacture/ supply, inspection/ testing / marking / packaging / handling and dispatch of Conductive Core Thermoplastic Flexible Hoses as per relevant codes.
- 1.2 Purchaser reserves the right to delete or order additional quantities during execution of order, based on unit rates and other terms & conditions in the original order.

2.0 CODES & STANDARD

Items Applicable Codes and Standards

Hose NFPA-52 & NGV 4.2; AGA/CGA, ANSI-4.2112.52

End connections ASTM A276; ASTM A 479, ASME SA479; ASTM A -262 Practice-A to E and or EN ISO 3651-2, Method A

Thread

- 1) Car Filling Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 3/8" ID with spring guard both end SS 9/16" UNF(F) swivel nut.
- 2) Car Vent Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard both end SS 7/16" UNF(F) swivel nut.
- 3) Bus Filling Hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 1/2" ID with spring guard both end SS 3/4" UNF(F) swivel nut.
- 4) Bus vent hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard both end SS 7/16" UNF(F) swivel nut.
- 5) 5CNG6, 3/8" ID flexible hose 5000 PSI with 1/4" NPTM connection both side OAL=18" long for CNG application as per standard NFPA-52, AGA/CGA, ANSI-4.2112.52 & AGA-93.
- 6) LCV FILLING HOSE ASSEMBLY (5CNG6 Working pressure 5000 PSIG)
- 7) LCV FILLING HOSE LENGTH 1.5 FEET END TO END CONNECTIONS 3/8" TUBE WITH NUT & FERRULE

Make : Parker/Eaton Synflex/ Swagelok.

Filling hose Pressure rating Working Pressure 5000 PSIG

Specific Conductivity of Filling Hose shall be 0.512 Mega ohms for length Up to 180" (appx. 4.5 Mtr) and, 3.5 Mega ohms for length Over 180" and Up to 1200" (Appx. 30 Mtr.)

3.0 PRECEDENCE

- 3.1 In case of any conflict between this job specification and other document, the following order of precedence shall apply:

Sign & seal of bidder

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- 3.1.1 Job Specification.
- 3.1.2 International Standards / Codes Applicable.

4.0 DEVIATION

Deviations if any required by Vendor shall be separately furnished against each clause giving reasoning for each deviation. Vendor to note that except the deviations furnished by them, Vendor's offer shall be deemed to be in total conformity with the enquiry specifications.

5.0 SPECIFICATIONS

- 5.1.1 The core material shall be non-metallic, flexible in complete conformity with the relevant standard as mentioned above.
- 5.1.2 Electrical conductivity shall comply with AGA1-93
- 5.1.3 End connections shall be SS 316 materials conforming to relevant design standard as specified above.

5.2 DESIGN & MANUFACTURE

- 5.2.1 Hoses shall be designed in conformance with the requirements of NFPA-52; AGA/CGA, ANSI-4.2112.52 and AGA1 -93 and other applicable code and standards. Area classification applicable for all items shall be Class-1, Division-1, Group-D as per NEC or Zone-1 Group-HA/ HB as per IS/ IEC specification or equivalent specification. All fittings shall be designed so that all parts /components meet the requirements for the specified area classification.
- 5.2.2 End connections shall be designed in conformance with the requirement of ASTM A276; ASTM A479, ASME SA 479; ASTM A -262 Practice-A to E and or EN ISO 3651-2, Method A
- 5.2.3 The whole assembly shall be rated for a working pressure of 5000 psig and shall be rated for temperature range of (-40)° to 250°F.

5.3 INSPECTION AND TESTING

- 5.3.1 The manufacturer shall submit typical type test reports for the following test carried out:
 - i) Hydrostatic test shall be carried out with de-ionized water. There shall be no detectable leakage at 1.5 times the rated pressure.
 - ii) Electrical conductivity test shall be carried out.
 - iii) Mechanical properties as a result of the test conducted and
 - iv) Chemical analysis report



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5.4 OTHER REQUIREMENTS

5.4.1 Manufacturer should confirm that the product as designed with above specifications are approved regulatory bodies like ATE X or ANSI/ AGA NGV 3.1 1995 for compressed natural gas or, CAN/ CGA-12.3-M95 "Fuel Systems Components for Natural Gas Powered Vehicles" by "Canadian Standard Association".

5.5 TEST REPORTS & CERTIFICATES

- 5.5.1 The manufacturer shall supply material compliance certificates.
- 5.5.2 Chemical Analysis report
- 5.5.3 Mechanical properties test report
- 5.5.4 Hydrostatic test report
- 5.5.5 Electrical conductivity test report
- 5.5.6 Warranty certificate

6.0 MARKING, PACKING & SHIPMENT

- 6.1 Heat code shall be marked to facilitate tractability.
- 6.2 All the items shall be suitably wrapped and packaged to with stand rough handling during ocean shipment and inland journey.
- 6.3 Each item shall be properly tagged and package separately to facilitate easy identification.
- 6.4 All items shall be wrapped and packaged in such-a-way that they can be preserved in original as new condition.
- 6.5 Packing note shall carry easily identifiable name or code of the physical item

7.0 DOCUMENTATION

- 7.1 All documents shall be furnished in English language only.
- 7.2 At the time of bidding, bidder shall submit following documents:
 - i) Reference list of previous supply for similar item, giving following details:
 - a) Name of the customer.
 - b) Specification of the item i.e., size and pressure & temperature rating.
 - c) Service
 - d) Quantity
 - e) Year of supply
 - ii) Test procedure and typical certificates to be submitted as per clause 5.3, 5.4 and 5.5 of this specification.
 - iii) Copy of regulatory compliance document/certification for similar product supplied earlier.
 - iv) Manufacturer Quality Control Plan and sampling plan.



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- v) Technical descriptive catalogue of manufacturer.
- vi) General arrangement/ assembly drawing showing all features.
- vii) Sectional drawing showing major parts with reference number and material specification.

7.3 Prior to shipment, manufacturer shall submit one set of all the documents and test certificates as specified above. And one set of the same documents and certificates along with the material in addition to the following documents:

1. Manual for installation, erection, maintenance and operating instructions including a list of recommended spares.

2. Delivery / Completion Schedule

All the supplies shall be completed within 04 (weeks) weeks, from the date of Intimation by Engineer In Charge (EIC)

3. Payment Terms

The terms of payment shall be as follows:

For Indian Bidders only

- 90% (Ninety percent) payment of the order value shall be paid progressively within 15 days on receipt of material at site along with despatch documents.

- i) Cenvatable Invoice in triplicate
- ii) GR/ LR
- iii) Packing List
- iv) Insurance cover note covering transit insurance
- v) A copy of performance bank guarantee as per PO
- viii) Test Reports & Certificates.

- 10% (ten percent) within 30 (thirty) days after receipt and acceptance of goods at site along with No claim certificate.

4. General Information relating to Consignee address, Banker's Name, Paying authority, Insurance Agent etc. :

- Location & Address of project Consignee & Stores

Bhagyanagar Gas Ltd.,
TSIDC buildings, 2nd floor,
Parishrma bhavan,
Basheerbagh, Hyderabad-500004

- GST No:36AACCB2130P1ZQ

- Whether certificate for availing concessional project rate of custom duty will be given.
: No

Name of Address of insurance agency: To be intimated at the time of placement of PO.

- Preferred mode of despatch : Domestic : By Road



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WARRANTY

1. Manufacturer & its authorized distributors should offer a comprehensive Warranty covering the performance of the product against any defects in material or workmanship for the life time of the product. A certificate to this effect must be issued on their respective Company letter head



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SECTION – 11
SCHEDULE OF RATES (SOR)



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SCHEDULE OF RATES (SOR)

Sr. No.	Item Description	Unit	Qty	Unit Price Ex-works including cost of imported raw material/ components & Project Rate of Customs Duty thereon, pkg/ fwd, but excluding Goods & Service Tax (GST) on finished goods	Per Unit Freight upto Project Site by Road Including Transit Insurance	Per Unit Goods & Service Tax (GST)	Per Unit FOT Site (5+6+7)	Total FOT Project Site (4 X 8)
1	2	3	4	5	6	7=(5+6)*...%	8=5+6+7	9=4X8
<u>SOR PART - A</u>								
1	Car Filling hose							
1.1	Car Long Filling Hose (5CNG6 Working Pressure 5000 PSIG) Electrical Conductive thermoplastic filling hose 3/8" ID with spring guard (3 meter length) both end carbon steel 9/16" UNF(F) swivel nut	Nos	40					
	Car Short Filling Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 3/8" ID with spring guard (0.7 meter length) both end carbon steel 9/16" UNF(F) swivel nut	Nos	40					
1.2	Car Long Vent Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring	Nos	40					



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	guard (3 meter length) both end carbon steel 7/16" UNF(F) swivel nut							
	Car Short Vent Hose (5CNG6 Working Pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard (0.7 meter length) both end carbon steel 7/16" UNF(F) swivel nut	Nos	40					
2	Bus Filling Hose							
2.1	Bus long filling hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 1/2" ID with spring guard (3mtr. length) both end carbon steel 3/4" UNF(F) swivel nut.	Nos	10					
	Bus short filling hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic filling hose 1/2" ID with spring guard (0.7 mtr. length) both end carbon steel 3/4" UNF(F) swivel nut.	Nos	10					
2.2	Bus Long vent hose (5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard (3mtr. length) both end carbon steel 7/16" UNF(F) swivel nut.	Nos	10					
	Bus Short vent hose(5CNG6 Working pressure 5000 PSIG) Electrical conductive thermoplastic hose 1/4" ID with spring guard (0.7 mtr. length) both end carbon steel 7/16"UNF(F) swivel nut.	Nos	10					



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2.3	5CNG6, 3/8" ID flexible hose 5000 PSI with 1/4" NPTM connection both side OAL=18" long for CNG application as per standard NFPA-52, AGA/CGA, ANSI-4.2112.52 & AGA-93	Nos	50					
Total amount inclusive of all taxes and duties & GST in Rs. (Part-A)								
<u>SOR PART - B</u>								
1	LCV FILLING HOSE ASSEMBLY (5CNG6 Working pressure 5000 PSIG) LCV FILLING HOSE LENGTH 1.5 FEET END TO END CONNECTIONS 3/8" TUBE WITH NUT & FERRULE	Nos	100					
Total amount inclusive of all taxes and duties & GST in Rs. (Part-B)								

Place:

Date:

Signature of Authorized Signatory:

Name:

Designation:

Seal: