



Bhagyanagar Gas
Limited

**Tender for Procurement of Odorant liquid for
Odorizing Units installed at Hyderabad, Vijayawada
and Kakinada.**

Bid Document No. BGL/552/2022-23

**Volume
II of II**



BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**TENDER FOR PROCUREMENT OF ODORANT LIQUID
FOR ODORIZING UNITS INSTALLED AT HYDERABAD,
VIJYAWADA AND KAKINADA.**

**UNDER OPEN DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/552/2022-23

VOLUME-II of II



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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 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 performed/ supplies/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-incharge, which will be binding on the Contractor.

2 SCOPE OF SUPPLY & SITE ACTIVITY

2.1 General

This Specification covers, **supply of odorant liquid/ (Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) to be used in Online Odorisers for CGS-cum-MS at Cities of Hyderabad in the state of Telangana & Vijayawada and Kakinada in the state of Andhra Pradesh.**

The scope of supply covers design, engineering, manufacture, inspection, testing, supply, shipment and documentation requirements of these items in accordance with the requirements of this Requisition.

The Scope of Supply & Site activity includes: -

- 2.1.1 Supply of odorant liquid/(Tertio Butyl Mercaptan 75%- 80% + Methyl Ethyl Sulfide 20%-25%) in Small Tank Container.
- 2.1.2 Transportation including Transit Insurance (to be arranged by the supplier), Neutralizing agent while filling of the Chemical to the tanks, Toll etc. of odorant liquid/(Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) Small Tank Container from Supplier Warehouse to BGL's mother station at Hyderabad , Vijayawada & Kakinada.
- 2.1.3 Safe Filling of Odorant liquid /(Tertio Butly Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) in BGL's online odoriser storage tank.
- 2.1.4 Supply of Nitrogen cylinder, Connectors, Pressure regulators, Pipe/Hoses, Joint less cables, Hypo, Scrubber for venting, Neutralizing agent for odor destroying of ethyl mercaptane/ Odorant liquid /(Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%), Safety Gears, Trained Manpower, Suitable Tools & Tackles (Non Sparking), filling procedure, Job Safety analysis, Tool box talk etc. required for safe Odorant liquid / (Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) Filling.
- 2.1.5. Bidder has to Supply, Transport, Loading, Unloading and transfer of liquid/ chemical to the storage tanks/ odorant system safely installed in all locations including the transferring arrangement , if any, with fittings etc

S/N	Description	UOM	Total Qty
Part-A. Supply of Odorant liquid at Hyderabad			
1	Supply of Odorant liquid /(Tertio Butyl Mercaptan 75%-80% +Methyl Ethyl Sulfide 20%-25%) as per the technical specifications mentioned in the tender document for BGL, Hyderabad. (Supply, Transport, Loading, Unloading and transfer of liquid/ chemical to the storage tanks/ odorant system safely with mixing of chemicals as required in SOR sl. no 2 & 3)	Kg	400
2	Supply of odorant absorbing chemical	Kg	25
3	Supply of odorant Neutralizing chemical	Ltrs	20
Part-B. Supply of Odorant liquid at Vijayawada			
1	Supply of Odorant liquid /(Tertio Butyl Mercaptan 75%-80% +Methyl Ethyl Sulfide 20%-25%) as per the technical specifications mentioned in the tender document for BGL, Vijayawada. (Supply, Transport, Loading, Unloading and transfer of liquid/ chemical to the storage tanks/ odorant system safely with mixing of chemicals as required in SOR sl. no 2 & 3)	Kg	300
2	Supply of odorant absorbing chemical	Kg	25
3	Supply of odorant Neutralizing chemical	Ltrs	20
Part-C. Supply of Odorant liquid at Kakinada			
1	Supply of Odorant liquid /(Tertio Butyl Mercaptan 75%-80% +Methyl Ethyl Sulfide 20%-25%) as per the technical specifications mentioned in the tender document for BGL, Kakinada. (Supply, Transport, Loading, Unloading and transfer of liquid/ chemical to the storage tanks/ odorant system safely with mixing of chemicals as required in SOR sl. no 2 & 3)	Kg	300
2	Supply of odorant absorbing chemical	Kg	25
3	Supply of odorant Neutralizing chemical	Ltrs	20

2.1.5 HSE Compliance.

After receipt of Odorant liquid at the respective Mother Stations of Hyderabad, Vijayawada and Kakinada; the vendor needs to transfer Odorant liquid safely using

all required equipment's, fittings, safety equipment's like SS containers with special fittings etc. in SAFE & SECURE way to the tanks of Online Odorizes.

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

2.3 **REMARKS**

2.3.1 Supplier's Compliance

Supplier shall submit his bid in full compliance with the requirements of this MR and attachments. Bidder shall include the following statement in his bid: Compliance with this material Requisition in any instance shall not relieve the Vendor of his responsibility to meet the specified performance.

2.3.2 Compliance with Specification

The supplier shall be completely responsible for the design, materials, fabrication, testing, and inspection, preparation for shipment & transfer of above material to nominated delivery point strictly in accordance with the MR & all attachments thereto.

3.0 **SPECIAL INSTRUCTIONS TO BIDDERS**

- 3.1 Suitable for the use with natural gas of specific gravity 0.6.

- 3.2 BGL reserves the right to increase or decrease the quantity of supply item.

4.0 **INFORMATION/ DOCUMENTS / DRAWINGS TO BE SUBMITTED BY SUCCESSFUL BIDDER**

Successful Bidder shall submit three copies unless noted otherwise, each of the following:

- 4.1 Inspection & test reports for all mandatory tests as per the applicable code as well as test reports for any supplementary tests, in nicely bound volumes.
4.2 Material test certificates (physical property, chemical composition, make etc.) as applicable for items in nicely bound volumes.
4.3 Statutory test certificates, as applicable.
4.4 All approved drawings/ design calculation/ maintenance/ operating manual documents as well as inspection and test reports for Owner's record in nicely category-wise bound volumes separately.
4.5 A list of documents to be furnished along with supply.

5.0 **GUARANTEE/WARRANTY PERIOD:**

Material shall be guaranteed against technical specifications for a period of 12 (Twelve) months from the date of shipment / dispatch (for each lot /locations).

Note: All drawings, instructions, catalogues, etc., shall be in English language and all dimensions shall be metric units.

6.0 SECURITY DEPOSIT/ CONTRACT PERFORMANCE:

- 6.1 The Contractor shall furnish to the Employer, within 30 days from the date of notification of award /FOI/LOI/LOA/WO) of award, a security of 3% of annualized Order/ Contract Value excl. of taxes & duties.
- 6.2 The contractor shall be liable to pay further balance of recovery/claim if any, which could not be recovered from the payments to the contractor and/or from the security deposit/bank guarantee.
- 6.3 The Bank Guarantee is towards performance guarantee for satisfactory Performance of contract. The Bank Guarantee should be valid for 3 months beyond the Guarantee / Warranty period. In the absence of such validity payments of all dues to the contractor will be withheld. On production of performance guarantee, Earnest Money Deposit will be released.
- 6.4 The Security Deposit/bank guarantee, subject to recoveries, if any, shall be refunded to the contractor after the successful completion of this contract.
- 6.5 In case the contractor fails to carry out the job, as per the terms and Conditions of the contract, the security deposit/bank guarantee is liable to be forfeited/invoked, without prejudice to any other right, which BGL may have under this contract or otherwise. The Bank Guarantee has to be given as per proforma enclosed with the tender

7.0 TERMS OF PAYMENTS

The Payment shall be made progressively against receipt of Odorant liquid at site in the following manner.

- A) 100% of supply value will be paid progressively by Owner within 15 days against receipt of materials at site and completion of site activity and submission of following documents duly accepted by EIC :-
- i) Invoice in triplicate
 - ii) Packing List/LR Receipt
 - li) Performance Bank Guarantee(s) of 10% of Contract Value. (If already submitted, a copy of the same).

8.0 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.

9.0 PRICE ESCALATION

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 subjected to any adjustment due to increase in price of material, 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.

10.0 DIVISION OF ORDER

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

11.0 QUALITY ASSURANCE / QUALITY CONTROL

11.1 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.

11.2 The Contractor shall establish document and maintain an effective quality assurance outlined in recognized codes.

11.3 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.

12.0 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.

13.0 INSPECTION

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.

14.0 DISPATCH INSTRUCTIONS

14.1 Seller shall obtain dispatch clearance from Purchaser prior to each dispatch.

14.2 Copy of Inspection Release Certificate, Dispatch Clearance and Statement showing LR, packing list and weight of material and shipping marks etc. to be submitted along with the dispatch document.

15.0 REJECTION

15.1 Any materials/goods covered under the scope of supply, which during the process of Inspection, at any stage of manufacture/fabrication, and subsequent stages, prior to dispatch is found not conforming to the requirements/specifications of the Purchase Order, shall be liable for immediate rejection.

15.2 Supplier shall be responsible and liable for immediate replacement of such material with acceptable material at no extra cost to BGL and no extra on the delivery schedule to Employer.

16.0 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.



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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.

17.0 REPEAT ORDER

BGL reserves the right to place a repeat order within one year of expiry of order for up to 50% of order quantities on same rate, terms and conditions.

18.0 DELIVERY

The delivery of the Odorant liquid shall be at Hyderabad, Vijayawada and Kakinada. The location of the store shall be informed before dispatch of Odorant liquid from factory.



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SECTION - 8

TIME SCHEDULE



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TIME SCHEDULE

S/N	Description	UOM	Total Qty	Delivery period/ Completion period
Part -A Supply of Odorant liquid at Hyderabad upto FOT site				
1	Supply of odorant liquid /(Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%)as per the technical specifications mentioned in the tender document for BGL, Hyderabad	Kg	400	Within 3 weeks on FOT site basis, from the date of PO/LOI
2	Supply of odorant absorbing chemical	Kg	25	Within 3 weeks on FOT site basis, from the date of PO/LOI
3	Supply of odorant Neutralizing chemical	Ltrs	20	Within 3 weeks on FOT site basis, from the date of PO/LOI
Part-B Supply of Odorant Liquid at Vijayawada upto FOT site				
1	Supply of odorant liquid /(Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%)as per the technical specifications mentioned in the tender document for BGL, Vijayawada	Kg	300	Within 3 weeks on FOT site basis, from the date of PO/LOI
2	Supply of odorant absorbing chemical	Kg	25	Within 3 weeks on FOT site basis, from the date of PO/LOI
3	Supply of odorant Neutralizing chemical	Ltrs	20	Within 3 weeks on FOT site basis, from the date of PO/LOI
Part-C Supply of Odorant Liquid at Kakinada upto FOT site				
1	Supply of odorant liquid/(Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%)as per the technical specifications mentioned in the tender document for BGL, Kakinada	Kg	300	Within 3 weeks on FOT site basis, from the date of PO/LOI
2	Supply of odorant absorbing chemical	Kg	25	Within 3 weeks on FOT site basis, from the date of PO/LOI
3	Supply of odorant Neutralizing chemical	Ltrs	20	Within 3 weeks on FOT site basis, from the date of PO/LOI



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SECTION – 9

TECHNICAL SPECIFICATIONS

Technical Specifications of Odorant Fluid:

Odorant for Natural Gas	Ethyl Mercaptan/75-80 % TBM (Tert-Butyl Mercaptan) + 20- 25 % MES (Methyl Ethyl Sulphide)
Specific Gravity Kg/m ³	0.808 at 20°C
Physical state (20° C)	liquid
Colour	colourless
Odour	pungent, strong, stinging
Flash point	closed cup: approx. -26° C (Standard ASTM D 3278)
Vapour pressure	151 hPa, at 15° C (calculated)
Refractive Index:	1,427 at 20°C
Boiling Point	145- 158 °F (63-70°C)
Water solubility	insoluble at 20 °C
Partition coefficient: noctanol/water	2-METHYLPROPANE-2-THIOL : log Kow : 2,14 (calculated) ETHYL METHYL SULPHIDE : log Kow :1,54 (OECD Test Guideline 107)
crystallization Temp	< -10 degree C
Cloud point	<-30 degree C
Density	808 kg/m ³ , at 20 °C (Standard NF 12 185)

PLEASE NOTE:

- a) This Odorant liquid / (Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) is to be used for odorization of Natural Gas for CNG & PNG purposes of City Gas Distribution Projects which are being supplied at our CGS-cum-Mother stations.
- b) The Odorant liquid / (Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) is to be supplied in properly designed drums so as to avoid damage during transit, storage and subsequent handling.
- c) The Odorant liquid / (Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) is to be transported in a suitable vehicle as approved by various required authorities.
- d) Test certificate should be submitted along with the un-price part of bid for all the properties listed above.
- e) Material Safety Data Sheet, Catalogue for safe handling of Odorant liquid / (Tertio Butyl Mercaptan 75%-80% + Methyl Ethyl Sulfide 20%-25%) and procedure for safe disposal of empty drums should also be supplied. Also antidote, if any, details may be provided.



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SECTION - 10

SCHEDULE OF RATES (SOR)



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**Bhayanagar Gas Limited
SCHEDULE OF RATES (SOR)**

Financial Bid / Priced Bid

Bid Document ref: BGL/552/2022-23, dtd. 20.06.2022

Item : Procurement of Odorant liquid for Odorizing Units installed at Hyderabad, Vijayawada and Kakinada.

Name of Bidder:

Sr No	Description	HSN/SAC Code	UOM	Qty	Unit Price incl. freight and all other taxes & duties, excl. GST (in figures)	Unit Price incl. freight and all other taxes & duties, excl. GST (in words)	GS T, %	GST, Rs.	Total Amount including GST and all applicable taxes (Rs) (in figures)	Total Amount including GST and all applicable taxes (Rs) (in words)
1	2	3	4	5	6	7	8.a	8=(8.a x 6)	9=(6+8) X5	10

Part-A for Hyderabad

1	Supply of Spot Leak 1007/ (Tertio Butyl Mercaptan 75% to 80% + Methyl Ethyl Sulfide 20%-25%) as per the technical specifications mentioned in the tender document for BGL, Hyderabad including transportation and Transfer of odorant liquid into BGL's odoriser tanks using all required fittings, safety equipments etc. for BGL, Hyderabad, as per the Scope of Work/Supply.		Kgs	400				-	-	
2	Supply of odorant absorbing chemical as per the Scope of Supply/Work.		Kgs	25				-	-	
3	Supply of odorant Neutralizing chemical as per the Scope of Supply/Work.		Ltrs	20				-	-	

Part B for Vijayawada



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1	Supply of Spot Leak 1007/ (Tertio Butyl Mercaptan 75% to 80% + Methyl Ethyl Sulfide 20%-25%) as per the technical specifications mentioned in the tender document for BGL, Vijayawada including transportation and Transfer of odorant liquid into BGL's odoriser tanks using all required fittings,safety equipments etc. for BGL, Vijayawada, as per the Scope of Work/Supply.	Kgs	300																
2	Supply of odorant absorbing chemical as per the Scope of Supply/Work.	Kgs	25																
3	Supply of odorant Neutralizing chemical as per the Scope of Supply/Work.	Lts	20																
Part C for Kakinada																			
1	Supply of Spot Leak 1007/ (Tertio Butyl Mercaptan 75% to 80% + Methyl Ethyl Sulfide 20%-25%) as per the technical specifications mentioned in the tender document for BGL, Kakinada including transportation and Transfer of odorant liquid into BGL's odoriser tanks using all required fittings,safety equipments etc. for BGL, Kakinada, as per the Scope of Work/Supply.	Kgs	300																
2	Supply of odorant absorbing chemical as per the Scope of Supply/Work.	Kgs	25																
3	Supply of odorant Neutralizing chemical as per the Scope of Supply/Work.	Lts	20																
Grand Total (A+B+C) amount including GST and All applicable taxes and duties (Rs)																			