



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

BID DOCUMENT FOR

**Tender for Hiring of specialized agency for
MDPE and steel pipeline gas leak detection
survey at Hyderabad, Vijayawada and Kakinada
GA's**

**UNDER OPEN DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/534/2021-22

VOLUME-II of II



**Hiring of specialized agency for MDPE and steel pipeline
gas leak detection survey at Hyderabad, Vijayawada and
Kakinada GA's**

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Volume
II of II

CONTENTS

VOLUMEN II OF II

SECTION 7	-	SPECIAL CONDITIONS OF CONTRACT
SECTION 8	-	SCOPE OF WORK
SECTION 9	-	SCHEDULE OF RATES



Bhagyanagar Gas
Limited

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Volume
II of II

SECTION – 7

SPECIAL CONDITIONS OF CONTRACT (SCC)

SPECIAL CONDITIONS OF CONTRACT

GENERAL INFORMATION: -

The special conditions of contract shall be read in conjunction with general condition of contract (GCC), Schedule of rates, scope of work and any other document forming part of contract, wherever Context so Requires. GCC is available at tender issuing office and same shall be referred to by Tendered. Notwithstanding, the subdivisions of the documents in to separate sections every part of each shall be deemed to be supplementary of every other part and shall be read with and into the Contract so for as it may be practicable to do so. Where any portion of the special conditions of the Contract (SCC) is repugnant to or at variance with any provisions of the GCC then provision of SCC Shall be deemed to override the provision of GCC only to the extent of each repugnance or variations. In case of any contradictions the Decision of the Engineer-I In-Charge will be final and binding on the Contractor.

1.0 GENERAL INFORMATION

The specification for the entire work shall be in accordance with latest IS codes & OISD standard & PNGRB Requirements. Whenever these codes are silent, the same shall be governed by sound engineering practice and the decision of the Engineer-In-Charge in matter of interpretation shall be final and binding on the contractor.

The Special Conditions of Contract (SCC) shall be read in conjunction with the General Conditions of Contract (GCC), Schedule of Rates (SOR), Scope of Work and any other document forming part of contract, wherever context so requires. Notwithstanding, the subdivisions of the documents into separate sections, each part shall be deemed to be supplementary of every other part and shall be read with and into the contract so far as it may be practicable to do so. Where any portion of the SCC is repugnant to or at variance with any provision of the GCC then unless a different intention be deemed to override the provisions of the GCC only to the extend such repugnance or variations if the SCC as are not possible of being reconciled with the provisions of the GCC. In case of any contradictions the decision of the Engineer-in- Charge (EIC) will be final and binding on the contractor.

2.0 LOCATION & SITE INFORMATION

The job is to be carried out at BGL authorized locations Hyderabad, Vijayawada and Kakinada. It is understood that before quoting the rates; the bidder has visited the work site and has acquainted himself fully with the nature and quantum of the job to be carried out by him. Ignorance of this will not be considered after award of work. The contractor will be responsible to complete the entire job in all respects and any of the work necessary to complete job though specifically not covered in the Scope of Work.

3.0 DURATION OF CONTRACT

The period of this contract for completion of all jobs listed in Scope of Work & SOR shall be as given below (from the date of issue of FOA/LOA whichever is earlier):

- a) Hyderabad : 08 months (including mobilization period of 15 days)**
- b) Vijayawada : 08 Months (including mobilization period of 15 days)**

c) Kakinada : 12 Months (including mobilization period of 15 days)

The contractor has to deploy adequate and suitably Highly skilled & experienced manpower along with Specialised and highly précised equipment to be used for perform Gas Leak Detection Surveys (as defined in Scope of Work). Contractor has to mobilise at least two separate teams with separate set of instruments simultaneously.

4.0 VALIDITY OF QUOTED RATES/PRICES

The quoted / accepted rates shall remain valid for the entire duration of the Contract, and no escalation, for whatsoever reason, shall be permissible at a later date.

Wherever it is mentioned in the specifications 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.

5.0 SCHEDULE OF RATES [SOR]: The "Schedule of Rates [SOR]" shall be read in conjunction with "SCC", "GCC", "Scope of Work & Technical Specifications" and any other document forming a part of the Contract

- All items of work in the "SOR" shall be carried out as per the specifications, relevant codes, drawings and instructions of the EIC and the quoted rates as per scope of work.

6.0 TERMS OF PAYMENT

- Payment shall be released on submission of RA Bills after rendering service by the vendor and on submission of invoice along with Natural Gas Leakage Report of each section / leak detected as per the format given in the Tender Document along with the RA Bill duly signed by the contractor or his representative and BGL representative (EIC).
- The final bill shall be submitted by the Agency/Contractor within a month from the date of completion of the contract.

7.0 TERMINATION OF CONTRACT:

The BGL shall have the right at any time during currency of the Contract to terminate it without assigning any reason by giving one month's notice to the Contractor and upon expiry of such notice period the Contract will be automatically closed. In the event of such termination of the Contract, the Contractor shall be paid for all the Work/ Services done up to the period of termination and no other claim shall be entertained.

8.0 PENALTY CLAUSE

The Leakage Survey of entire MDPE pipelines up to TF Fittings & Regulator (Outlet joint) shall be carried out as per plan chalked out in advance with mutual discussion between contractor and respective site EIC. In case the said job is not completed within the stipulated time period (as per agreed plan) and the reasons for the same are found to be attributable to the contractor, penalty @ Rs 500 per day of delay in completion of the said work with a total ceiling of 2.5% of the contract value will be applied. This penalty is in addition to the LD as per GCC of the Contract.

9.0 OTHER TERMS & CONDITIONS:

All expenses towards mobilization at site and demobilization including bringing in equipment, tools & tackles, work force, etc., shall be deemed to be included in the prices quoted and no separate payments on account of such expenses shall be entertained. Considering large pipeline network, time involved for leakage repair identified by the specialized agency, there may be multiple mobilization/ de-mobilization of resources deployed by the specialized agency. Expenses toward lodging and boarding shall be borne by Contractor / Specialised agency only. Further, the charge for transportation of the deployed team at the site is also to be arranged and borne by the contractor.

10.0 The Gas Leak Detection Survey is to be carried out by well-experienced highly skilled manpower.

11.0 All the rules and regulations prevailing and applicable from time to time at the installations or as directed by GGL will be strictly adhered to by the contractor / Specialised agency.

12.0 SAFETY PRACTICES

Contractor shall positively observe all safety measures required to be undertaken in field as per the requirement of the Job.

13.0 It will be responsibilities of the contractor regarding statutory compliances and other conditions regarding deployed manpower. The contractor has to comply the relevant statutory acts / Laws of the land regarding manpower employment/Payments of wages and insurance etc. and will indemnify GGL in all respect.

14.0 All personnel deployed by the contractor should be tested medically fit to be performing the assigned jobs. Contractor has to deploy the personnel with no past criminal records. The contractor shall not employ any person suffering from any contagious, loathsome or infectious disease such as COVID-19.

15.0 The contractor hereby agrees to indemnify owner / BGL and harmless from all claims, demands, actions, cost and charges etc. brought by any court, competent authority / statutory authorities against owner/BGL.

16.0 All other terms & conditions of the contract shall be as per "General Conditions of Contract [GCC]"

17.0 The bidder is required to quote necessarily for full quantity of a particular Region. Part quantity bid for a particular region is not acceptable.

18.0 **Contract Performance Security (CPS)/Contract Performance Bank Guarantee (CPBG):**

The CPS clause shall be as per the ITB Clause no. 37 and as follows:

The Contractor shall furnish to the Employer, within 30 days from the date of notification (FOI, LOI, LOA, WO) of award, a security of 3% of annualized contract value within 30 days of award within 30 days of award.

Contract Performance Security which will be valid for 90 days beyond the contract expiry date shall be refunded after the Defect Liability Period. GCC clause 2.13 of Contract Performance Security shall be followed.

Defect Liability Period (DLP) is 3 months from the date of completion of the contract.

19.0 Contract Agreement:

The bidder has to execute a contract agreement within 15 working days of the award of the work as per the format enclosed in tender Document.

SECTION – 8
SCOPE OF WORK

SCOPE OF WORK

The scope of work shall include but not limited to the following, Engineer In - Charge's instruction shall be final as per requirement of the job:

1. MDPE Line leak detection Survey at the following Locations is intended to be covered under the instant tender.

Sr. No.	GA / Region	Location Covered Under GA / Region	Total Maximum MDPE Pipeline Length (Kms)
1	Hyderabad	Hyderabad GA	600
2	Vijayawada	Vijayawada GA	400
3	Kakinada	Kakinada GA	700

2. Respective BGL site may divide its Total MDPE Pipeline Network into Gas line loops based on the location of Gas Isolation Valves / DRS Installed / etc.
3. BGL will facilitate to isolate the loop that has to undergo the gas leak survey, to ascertain the efficacy of the gas leak survey and that of the follow-on repairs (this activity is BGL's part of scope) by carrying out the pressure drop test.
4. After the loops are identified, BGL site in charge will allocate the sequence in which the Gas Leak Detection Survey is to be carried out. The location of the gas pipes will be shown by the BGL team. Contractor / Specialized Agency will carry out the Gas Leak Detection Survey of MDPE pipeline upto TF points & Regulator (Outlet joint) for detecting gas leak.
5. After having detected the leak, Contractor / Specialized Agency will pinpoint the leak within 01 – 1.5 meter of the radius. The Contractor / Specialized Agency has to deploy adequate and highly skilled & experienced manpower (having similar previous experience in CGD pipeline networks) for performing Gas Leak Detection Surveys with Specialized and Highly précised equipment (as detailed below) to identify the minute gas leakages coming at the ground level from the underground pipeline after seepage from the leakage source.
- Hand-Held Remote Methane Leak Detector (RMLD), with High Sensitivity of 1 to 5 PPM) and long range of leak detection up to one hundred feet away. Laser Technology Remote Detection is mandatory so that survey of difficult / unapproachable areas such as busy roads, Locked gates / Plots, Pipe passing under a bridge, Regulator Fittings and other hard-to-access places can also be carried out accurately and entire length of pipeline can be surveyed. The instrument should have the provision of spotting the laser during the day time.
 - Intrinsically safe Infrared Instrument, working on Infrared Optical Gas Detection system with sample gas pumped into the instrument through a probe (DPIR system) for detecting Methane. It's imperative that the instrument has a response time of less than 1.5 sec so as to ensure that the underground leaks of low magnitude are not missed.

In addition to these instruments, the contractor should use a dedicated instrument to distinguish the source of gas leak. In this it should be able to identify if the source of gas is pipe or natural.

The contractor should use Plunger bar, to dig probe holes for ascertaining the location of underground leaks, that has insulation of at least 10 KV.

The equipment will be carried by experienced personnel of the specialized agency on the BGL pipeline network with a walking speed of maximum 2-3 Km/Hr. The deployed equipment should have the High Sensitivity (1 to 5 PPM) and Fast Response Time of about 1 – 1.5 second (Maximum 2.0 Second) with PPM Mode with Survey Probe to detect the minor leakages in the range of 1 to 5 PPM.

- c) The contractor should submit the details of both the above type of equipment (Make, Model, OEM's specification, OEM's Manual, Year of Purchase, Clients where it has been used earlier, etc.) in his technical bid along with the undertaking that he will mobilize his team along with both the above instruments within 15 days' time after getting order to start the Leak Detection Survey. If the bidder fails to submit the above details and undertaking his offer will not be considered for further evaluation.

d) The both the above equipment's need to be mobilized simultaneously and survey with both the above equipment is mandatory. If order of Hyderabad, Vijayawada and Kakinada GA's regions or any two regions are placed on a single party then contractor has to mobilize at least two separate teams with separate set of instruments simultaneously and they will be utilized as per instructions of client. The above relaxation is being considered, as it is expected that the required highly skilled & experienced manpower along with Specialized and Highly precise equipment may not be available in more numbers with a single agency. To cater the job requirement at all the regions there may be multiple mobilization/ de-mobilization of resources deployed by the specialized agency to cover these regions parallelly as per the importance of the job. The previous experience details of the personnel being deployed will be submitted by the contractor for establishing that the deployed personnel have carried out similar leak detection surveys in CGD pipeline network to EIC.

6. After pinpointing the leakage point BGL site In-charge will arrange for digging of the ground to gain access to the gas line. The above activity and all other resources such as arranging Hydra / JCB for excavation & backfilling, etc., are in the scope of BGL.
7. After access of the Gas Pipeline the Contractor / Specialized Agency will detect / pin point the source of the gas leak in a systematic process on pipeline.
8. Subsequently depending on the magnitude of the leak and the location in the proximity, Contractor / Specialized agency will classify the leak (Grades / Classifications) and advise to the Client (BGL) immediately about the severity of the Gas leak source and same will be classified in Grades 1, 2 or 3 as per ASME B31.8. Efforts shall be made by the agency to quantify the gas leakage on approximation basis considering the magnitude of the leakage observed, size & type of aperture, PPM of Gas detected by the equipment, operating pressure in the pipeline etc. This will give an estimation of the

- quantity of gas loss from the particular point.
9. A gas leak report will be generated with exact location details (co-ordinates of location) and submitted to the BGL on the following day in the mutually agreed format. This report as and when generated will be signed by both sides and will serve as line history for future records.
 10. After attending the identified leakages, in particular loops or segments, EIC/ BGL will assess the improvement in the gas losses in the respective loops/ segments. In case satisfactory improvement is not achieved, then the specialized agency will repeat the leak survey in the respective loops/ segments and try to re-locate the missed-out leakages during the initial survey carried out in the loops/ segments, if any. Payment of one loop shall be made one time only even after repetition of survey. Even after repeating the leakage survey, if satisfactory improvement in the gas loss is not achieved in the respective loops (repetitively for several loops), then it shall be considered that the overall process is not effective and BGL's objective is not being fulfilled, BGL/EIC has the right to stop the work and short close the contract without any bindings on either side. Payment for the leak survey already carried out shall be processed as per terms and conditions of the contract. The Contractor / Specialized Agency will cover loop after loop as per the instruction of EIC and also maintain a daily log of distance covered which will be signed by Contractor representative & BGL Representative.
 11. Subsequent jobs such as Repair of Gas Leakage, Jointing, Electro-fusion Jointing, re-testing the network after repair, commissioning, compaction after backfilling, etc. is in the scope of BGL and is not in the scope of the Contractor/ Specialized Agency.
 12. After attending the identified leakage by BGL team, the specialized agency will revisit the location after about 10 to 15 days to access the leakage as a verification process for the Leak Repair Job done by the BGL team at contractors own risk and cost.
 13. Coordination Jobs such as obtaining permissions from authorities, house owners/ RWAs of societies/ House Owners of the allotted area/ Installation of safety/ warning signs/ barricading of work area to be trenched/ etc. is in scope of BGL and is not in the scope of Contractor/ Specialized Agency.



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Bid Document No. BGL/534/2021-22

Volume
II of II

SECTION – 9
SCHEDULE OF RATES (SOR)



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Bid Document No. BGL/534/2021-22

Volume
II of II

REFER E-TENDER NO.: BGL/534/2021-22 IN E-
TENDERING WEBSITE /PORTAL -
(<https://petroleum.euniwizarde.com/>) FOR SCHEDULE
OF RATES



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Bid Document No. BGL/534/2021-22

Volume
II of II

<p align="center">Bhagyanagar Gas Limited SCHEDULE OF RATES (SOR) Financial Bid / Priced Bid Bid Document ref: BGL/534/2021-22, dtd. 01.02.2022 Item: Hiring of Emergency Response Vehicles and Pool vehicles for Operations and maintenance activities of CGD network in BGL, Hyderabad & Vijayawada locations</p>								
Name of the Vendor								
Sr.No.	Service description	HSN/ SAC Code	Qty	UOM	Unit rate excluding GST		Total amount in (Rs.) excluding GST	Total amount in (Rs.) excluding GST
A	B	c	d	e	f	g	h	i
1	Gas leak detection survey in MDPE pipeline at Various GA's with specialized instruments Hand-held remote methane leak detector (RMLD) and intrinsically safe infrared instrument working on infrared optical gas detection system(DPIR) system as per the scope of work				In Figure	In words		
(a)	Hyderabad GA		Mtr	600000				
(b)	Vijayawada GA		Mtr	400000				
(c)	Kakinada GA		Mtr	700000				
Total Value excluding GST in Rs.								
GST on Total Value in Rs.								
Total amount including incl. of all taxes, duties & GST in Rs.								