



BHAGYANAGAR GAS
LIMITED

**Tender for Procurement of Pipeline Locator at
Hyderabad**

VOLUME
II OF II

Bid Document No. BGL/255/2014-15



Bhagyanagar Gas Ltd.

BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**TENDER FOR PROCUREMENT OF PIPELINE
LOCATOR AT HYDERABAD**

**UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/255/2014-15

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SECTION – 7

SPECIAL CONDITIONS OF CONTRACT (SCC)



1.0 GENERAL

The Special Conditions of Contract shall be read in conjunction with the General Conditions of Contract, Schedule of rates, specifications, drawings and any other documents forming part of contract, wherever the context so requires. Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.

Where any portion of the General Condition 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 override the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.

2.0 SCOPE OF SUPPLY

This Specification covers, supply of Pipeline cum defect Mapper to be used in City Gas Distribution for Hyderabad City in the state of Andhra Pradesh.

The scope of work includes Design, Manufacture, Supply of Pipeline cum defect mapper and successful demonstration of all the features of equipment to BGL officials at Hyderabad Site, as mentioned in SOR and as per technical Specifications of tender.

3.0 DELIVERY LOCATION:

The Items shall be required to be delivered on door delivery & Freight Paid basis at BGL, Hyderabad Office at the following Address:

**Bhayanagar Gas Limited
2nd Floor, Parishram Bhavan, APIDC Building
Basheer Bagh, Hyderabad-500004**

Technical documents like drawings to be required at the time of delivery:

Following documents are required to be submitted by the vendor at the time of delivery:

- A. Manufacturer's Test Certificate in Original + 2 sets
- B. As Built Drawings / Sketch
- C- Operation & Maintenance Manual

4.0 TRANSPORTATION OF ALL MATERIAL:

Shall be arranged by the contractor on his own and no separate payment shall be paid. It should be included in the offered rate.

5.0 DELIVERY SCHEDULE:

The ordered item(s) shall be delivered within 3 Months from the date of issuance of FOA/PO. Whichever is earlier.



6.0 TERMS OF PAYMENTS:

90% payment will be released within 15 days of receipt and balance 10% payment after commissioning and acceptance of EIC. However, if the commissioning is delayed beyond 30 days of receipt of material at site, balance 10% payment may be released straight forward to the vendor.

7.0 PRICE REDUCTION SCHEDULE (PRS):

In case of delay in delivery of equipment / material or delay in completion, total contract price shall be reduced by 1/2 % (Half Percent) of the contract price per complete week of delay or part thereof subject to a maximum of 5% (Five Percent) of the total contract price.

8.0 CONTRACT PERFORMANCE BANK GUARANTEE/SECURITY DEPOSIT:

The CONTRACTOR shall furnish to the EMPLOYER, within 15 days from the date of notification of award, a security in the sum of 10% of the contract value (excluding taxes & duties if mentioned separately), in the form of a Bank draft/Banker's cheque or Bank Guarantee (as per proforma enclosed) as Contract Performance Security with the EMPLOYER. The Performance Bank Guarantee shall be valid for 3 Months beyond the expiry of DEFECTS LIABILITY PERIOD.

9.0 DEFECT LIABILITY PERIOD:

DLP is 12 (Twelve) months from the date of commissioning/ demonstration by seller/bidder at the site.

10.0 TRANSIT INSURANCE:

Quoted Price shall be inclusive of Transit Insurance and it is in bidder Scope.

11.0 WARRANTEE:

Manufacturer of the product must provide warranty certificate against material, manufacturing defects and workmanship for a period of 12 months from the date of receipt at site and acceptance by BGL. During the warranty period, any manufacturing/ material / workmanship defects observed, are to be rectified free of cost and vendor has to bear transportation charges incurred, if any, during repair /rectification of problems.

Supplier shall replace any defective items/Parts within 1 week on receipt of intimation from BGL.

Decision of BGL in this respect shall be firm and binding on the supplier. In case the defective items are not replaced, BGL will recover the cost of such defective items from the invoices of the supplier or by any other method as defined in the General Conditions of Contract (Goods), which is attached with the tender document.

12.0 TAXES, DUTIES, OCTROI, LEVIES ETC.:

The quoted rates/ prices shall be deemed to be including of all taxes including sales tax work contract tax, octroi, levies ,over head charges etc till completion of the contract and contractor shall not be eligible for any compensation on this account.



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SECTION – 8

TECHNICAL SPECIFICATION



TECHNICAL SPECIFICATIONS FOR PIPELINE DEFECT MAPPER/LOCATOR

General:

The Pipeline Defect Mapper should be designed and developed in such a way to precisely locate and assist in evaluating coating defects of Cathodically Protected underground pipelines. The profile current to be applied at rectifier unit or any CP point for the measurements by rugged hand-held receiver. Results should be in the form of graphs (plots) which can be viewed on receiver's colour display.

Standard Equipment:

Should comprise of:

- Receiver with color display, Li-Ion rechargeable battery pack & Alkaline battery holder, Signal Direction, Peak & Null Antenna with Graphic Arrows, Internal Data Logging (Min. 1000 Logs), CAT & ACVG Plot Generation & Viewing on Receiver's display, Mains Charger, Soft carry bag.
- 150W Transmitter with Mains Lead, DC Lead, Direct connection Lead and Ground rod,
- **A-Frame** with connecting cable and soft carry bag, English operating manual.
- **GPS Receiver** integrated with receiver software so that GPS co-ordinates recorded in locator.
- **Data Management Application Software** for logs downloads from PDM Receiver.
- **OEM Calibration Certificate**
- **Supplier's warranty certificate.**

Receiver General Features:

1. Should be sleek, rugged and light-weight in design.
2. Should have carbon fiber and ABS housing.
3. Should have colour display.
4. Should have facility to customize the start-up screen with our company logo.
5. Should have Dual Core Processor.
6. Should have dual power source i. e. Alkaline batteries and Li-Ion Rechargeable batteries.
7. Should have Data capturing and graphics facility for Locate, Locate Current (mA), Locate Depth and Voltage Gradient (ACVG).
8. Should have integrated GPS so that GPS co-ordinates are recorded in receiver with locate data.
9. Locate information should be recorded internally and should be able to export in Excel and kml file format to external devices such as Laptop/desktop with USB cable.
10. Instant View of CAT Survey and ACVG Survey on receiver display.
11. Walk-Back Feature, to come back to area of interest.
12. Should have USB interface to receiver operating software and accessories.
13. Should have Pipe and Cable locating modes even while using A-Frame.
14. Should have A-Frame for locating faults and for ACVG surveys.
15. Should have "Signal Direction" for positive line direction.



16. Should display 'Continuous Real Time Distance from last survey point' with GPS activated.
17. Locator receiver's colour display should display operating frequency, continuous battery checks, speaker volume, Bluetooth, GPS, depth, current, distance, signal direction, graphs, log number and signal strength in dB.

Transmitter general features

1. Transmitter should have selectable input power options for 100-240V AC, 12-60V DC.
2. Transmitter output power should be minimum 150 Watt.
3. Should have multiple frequencies including 3Hz, 6Hz, 98Hz, 128Hz, 512Hz, 640Hz.
4. Should be able to transmit simultaneous multiple frequencies (selectable).

24V DC Power Pack for Transmitter

1. 02 Nos, X 12V DC, 17AH with mini UPS having I/P 100-240V AC, 50 Hz and O/P 24V DC, 5Amp. dully wired and packed in suitable wooden box.
2. Size of wooden box (accommodating above): App. 30 x 30 x 25 Cms.
3. Weight of wooden box (accommodating above): Less than 18 Kgs.



DETAILED TECHNICAL SPECIFICATION

Receiver:

1. Sharp TFT LCD 1A VGA high colour display.
2. Dual Battery system i.e. Internal rechargeable Li-Ion batteries and replaceable batteries both.
3. Life for Li-Ion batteries - Not less than 20 hrs. of intermittent use.
4. Communication: Bluetooth and USB
5. Construction: Light weight Carbon Fiber Reinforced High Impact thermoplastic (ABS) injection molded housing.
6. Weight of Receiver module - vendor to specify.
7. Should comply with European standard CE(directive 99/5/EC) and FCC Rules Para 15.
8. Displayed information: Signal Strength, Mode Indication, Left/Right Indication, Line Direction Compass, DM Signal Direction, Automatic Recognition of Accessories, Depth Measurement, Peak/Null/Broad Peak Signal Indications, Transmitted Current Measurement, DM Mapping Current Measurement, Line/Sonde Locating Mode, Gain Level (in dB), Battery Check, Operating frequency, Speaker Volume, Log Number, Real Time DM Mapping and On-Screen Graphics, Real Time A-Frame Fault Mapping and On-Screen Graphics, Distance from last reading (when GPS facility activated).
9. Setup menu for Frequency, Line Locating, Units, Power Mode, Continuous Depth and Backlight.
10. Depth display range should be up to 20 Mtr.
11. Depth Range and Accuracy: +/- 5% Up to 5 Mtr.; +/- 10% up to 8 Mtr.
12. A-Frame: Sensitivity up to 3M Ohm defects, Environmental IP54.
13. Data Storage: 1000 Data Point Storage; Transferable to PC for Excel report and kml file.
14. Gain control: Digital Auto and Manual.
15. Temperature Range: Operating -20 to +50 Deg. C. and Storage -40 to +60 Deg. C.
16. Weatherproof and complying to IP54 and NEMA 4.

Transmitter:

1. Construction: High Impact Plastic.
2. Display type: Mono Dot Matrix Display.
3. Power Supply: 100-250V AC or 12 -60V DC.
4. Connectors for Mains Input, DC Input and Transmitter Output.
5. Complies with European standard CE (directive 99/5/EC) and FCC Rules Para 15.
6. Standard accessories: Direct Connection Lead, Mains Input Lead, DC Input Lead and Ground Rod.
7. Displayed Information: Output Frequency, Output Current Setting, Output Current Actual.
8. Application Mode: Direct Connection Mode.
9. Power Output (Transmitting Mode) 150 Watt or more.
10. Output Current: not less than 3A RMS (maximum) with up to 2 frequencies.



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11. Should have Easy to use Push button type/Rotary type Controls for selecting Frequency, Output Level, Information and On/Off.
12. Temperature Range: Operating -20 to +50 Deg. C. and Storage -40 to +60 Deg. C.
13. Weatherproof and complying to IP54 and NEMA 4.

Software:

1. Web-based licensed free and up-gradable desktop utility software for data upload and set-up should be available through internet. Software should have OEM licensed free GPS integrated software with locator software so that no separate GPS utility software required.
2. Desktop software should be able to easily replace the start-up screen with customized own pictures or text, select or deselect many of the customized features and locking out access to others.

Additional requirements:

1. Demonstration / Training is to be provided at BGL site without any extra charges.
2. Warranty should be 18/12 months from the date of dispatch / date of PO whichever is earlier.
3. Bidder should have repair facility in India.
4. Bidder should have installed OEM Calibration Rig facility in India for future calibrations.



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SECTION – 9

SCHEDULE OF RATES



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**SCHEDULE OF RATES (SOR)
SOR for Procurement of Pipeline locator at Hyderabad.**

Sl. No	Item Description:	UOM	QTY (A)	Unit Rate Ex works including packing, Freight Duties & Taxes	Per Unit Excise Duty(Rs)		Per Unit Sales tax (Rs) Without Form "C"		Total Ex-Works(Rs.)	Total Amount On FOT Site (Rs.)
					%	Rs	%	Rs		
1	2	3	4	5	6	7=(5x6)	8	9=(5+7)x 8	10=5+7+9	11=10 X 4
1	Supply of Pipeline Cum Defect Mapper as per Technical Specification on FOT Basis.	EA	1							

Notes:

1. The Price Quoted above for supply item must be on FOT site basis with all break-up exactly as per price schedule above.
2. Evaluation will be done at lowest cost to Owner (BGL).