



Bhagyanagar Gas Ltd.

BHAGYANAGAR GAS LIMITED

(A JOINT VENTURE OF HPCL & GAIL)

BID DOCUMENT FOR

**TENDER FOR PROCUREMENT OF PORTABLE LEL
DETECTORS FOR CGD PROJECTS IN HYDERABD,
VIJAYAWADA AND KAKINADA.**

**UNDER LIMITED DOMESTIC
COMPETITIVE BIDDING**

Bid Document No.: BGL/309/2015-16

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SECTION – 7

SCOPE OF SUPPLY & SPECIAL CONDITIONS OF CONTRACT (SCC)

1.0 SCOPE

The intent of this specification is to define the requirements of 3 No's of IR based Portable Gas Detectors for Bhagyanagar Gas Ltd., Hyderabad. Scope of work includes the supply of Portable pocket Digital Multi Gas Detectors for the detection of Methane, Oxygen mainly and work environment monitoring shall be handy. The size of the detector shall be such that person can easily carry in the pocket too. The detector shall be light weight. The detector shall be supplied with manual and other necessary accessories

2.0 STANDARDS

2.1 In general the equipment covered by this specification shall, unless otherwise specified, be in line with the requirement of any of the latest applicable standards of

- a) Bureau of Indian Standards
- b) British Standard Institution
- c) American Standard Institution
- d) International Electro Technical Commission

2.2 Wherever the requirements in this specification are in conflict with any of the above Standards, the requirements under this specification shall be binding.

3.0 GENERAL REQUIREMENTS:-

3.1. Basic Particulars for Design:

Operating temperature: -40°C to +50°C (-4°F to +122°F)

Operating humidity: 10% to 95% relative humidity (non-condensing)

Detection range: 0 – 50 ppm (minimum) (1 ppm increments)

Protection: Rugged, IP-66/67 highly water-resistant design. Built-in concussion proof boot

Sensor type: The detector shall utilize a dual compensating optics to detect hydrocarbon gasses in various concentration ranges through the means of an infrared absorption principle. The detector shall operate from a range of 0 – 100% LEL Methane as standard with the capability of calibration to other hydrocarbon gasses. The certified accuracy shall be < +/- 1% LEL. The certified repeatability shall be < +/- 2% LEL.

Calibration: Auto zero, set span, and span sensor

Backlight: Low light (auto and on demand); alarm condition (auto)

Full function self- test:- Verifies integrity of sensor, circuitry and battery; audible/visual alarms

Indicators and Alarms:

Clearly advises alarm levels both visually and audibly Visual alarm: Flashing
Audible alarm: High-output, pulsing 95 dB at 10 in / 0.25 m (typical) Confidence
beep: Every 5 seconds (field-selectable on/off) Other: Low battery; off warning;
sensor fail Vibrator Alarm Standard: Vibrates in sync with audible and visual alarms
Peak value displayed on command (in ppm or % vol) LOW, HIGH, TWA and STEL
alarms with adjustable set points.

3.2 CONTINUOUS LCD DISPLAY:

Alphanumeric gas readout and status display advises: Gas ppm or % Continuously
displays gas concentration present TWA and STEL ppm or % Records and displays
on demand Peak ppm or % Records and displays peak (maximum) exposure to gas on
demand Set points Displayed on activation (auto) and on demand in ppm or % .

3.3 TESTS:

Full function self-test: Full function self-test on activation

(auto) Battery: Continuous (auto)

Alarm conditions:

TWA alarm, STEL alarm, low alarm, high alarm, sensor alarm, low battery alarm,
confidence beep, automatic shutdown alarm.

Audible alarm: 95 dB at 0.3 m (1 ft.) typical

Visual alarm: Red light-emitting diode (LED)

Display: Alpha-numeric liquid crystal display (LCD)

Backlight: Automatically activates for 3 seconds whenever there is insufficient light
to view the display and during alarm conditions. Any pushbutton reactivates the
backlight for 6 seconds.

Self-test: Initiated upon activation

Battery test: Every 0.5 seconds

Battery: Rechargeable Lion Battery-18Hr runtime and 6Hrs charge time.

3.4 APPROVALS:

Classified by UL to both U.S. and Canadian Standards as Intrinsically Safe for Class
I, Division 1, Group A, B, C, D

European Explosives Protection EEx ia

IIC CE 0539 g II 1 G DEMKO 04

ATEX 03 36363 IECEX

ABS Type Approved: VA-348-169-X

3.5 Warranty Period

The Warranty Period Shall be Two Years including the sensors.

3.6 Payment terms:-

100% payment after submission of invoice along with Test certificates/Reports.

3.7 PRICE REDUCTION SCHEDULE:

Time is the essence of this CONTRACT. In case the CONTRACTOR fails to supply the Material within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 of GCC or due to EMPLOYER's defaults, the Total Contract Price shall be reduced by ½ % of the total Contract Price per complete week of delay or part thereof subject to a maximum of 5% of the Total Contract Price, by way of reduction in price for delay and not as penalty. The said amount will be recovered from amount due to the Contractor/ Contractor's Contract Performance Security payable on demand.

3.8 Delivery Period:

30 days from the date of issue the purchase order

3.9 Freight:

On "To Pay" basis successful vendor to arrange shipment and transit insurance and BGL will pay the charges at actual.

4.0 Delivery Location:

BGL HO, Hyderabad.



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SECTION – 8
SCHEDULE OF RATES (SOR)

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Item: Procurement of LEL Detectors for Three Cities

A				
Supply of IR type Portable LEL Detectors				
Item No	Description of items	Qty (A)	Unit Ex-works Rate including of P&F, all other Taxes & duties excluding CST/VAT (Rs/Unit) (B)	Total Amount inclusive of P&F, Taxes and Duties (Rs.) C= (A X B)
A.1	Supply of IR type Portable LEL Detectors (Sampling Version) with Standard Accessories as per the specification mentioned in the scope of work	4		
A.2	Discount availed for the 6 LEL detectors on buy back policy of the existing QRAE-II detectos @ _____%			
Sub Total (Rs) (i) =(A.1 - A.2)				
VAT/CST against C-form @ _____ % on (i) :(ii)				
Grand Total Price (INR) inclusive of all applicable taxes (Rs) : (iii)= (i) + (ii)				