



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

**BID DOCUMENT FOR**

**Procurement of Portable Natural Gas Leak Detector with CH 4  
LEL & O2 Sensor at Hyderabad, Vijayawada & Kakinada GA.  
Bid Document No. BGL/615/2024-25**

**UNDER OPEN DOMESTIC COMPETITIVE BIDDING**

**Bid Document No. BGL/615/2024-25**

**Volume II of II**



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**SECTION 5 : SCOPE OF WORK/ SUPPLY & MATERIAL REQUISITION**

**1.0 SCOPE OF WORK.**

Supply of Portable Natural Gas Leak Detector with CH<sub>4</sub> LEL & O<sub>2</sub> Sensor at Hyderabad, Vijayawada & Kakinada Gas.

**1. Portable Methane Leak (LEL) Detector**

Sr No	Specification Detail	Vendor's comment	
		Yes	No
1	Product service- Methane/ Natural gas		
2	<b>Operating technology-Diffusion Full function self-test upon activation Sensors, battery and circuitry -continuous, System fault: Audible tone / Indication</b>		
3	Measurement range :1-50,000 ppm-m with Display: LCD		
4	<b>Methane Detection Alarms: Audible tone/Indication when threshold is exceeded</b>		
5	Enclosure: IP 67, Portable and shall be handy		
6	Operating temperature: -20 to 50 Degree C		
7	Humidity: 5 to 95 % RH		
8	Power supply: Re-chargeable Batteries with charger.		
9	Battery backup: Minimum 5-8 hours per charge.		
<b>B</b>	<b>Approval, Hazardous Area &amp; Certificates:</b>		
1	ATEX II 1 G Ex ia IIC T4 Ga, CSA Class 1, Zone 0, ex ia IIC T4 Ga, IECEx Ex ia IIC T4 Ga, PESO Supplier shall furnish to Buyer at the time of shipment all relevant certificates as per Specification & Tender.		
<b>C</b>	<b>Technical Documents:</b>		
1	Bidder shall be required to submit the following in support of their technical competence to undertake the supply as per the Tender Requirements:		
2	Technical details of the materials offered. This shall include technical specifications, dimensions etc.		
3	Hazardous area classification certificate(s) for the materials offered.		
<b>D</b>	<b>Warranty/Guarantee:</b>		
	<b>The guarantee period 12 months from the date of supply.</b>		



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**2. Sensors for Portable Methane Leak Detector**

S N	Specification Detail	Vendor's comment	
		Yes	No
1	Product service- Methane/ Natural gas part number CLL-6112-300		
2	Nominal Range:0-100% Vol		
3	Sensitivity range :22±8mV/%CH <sub>4</sub>		
4	T90 Response Time :<20Sec (Methane)		
5	Linear to: 0-75% LEL		
6	Long Term Sensitivity Draft :<±5%Signal/month Long Term Zero Draft : :<±5%LEL <sub>Methane</sub> /month		
7	Operation Conditions: Temp: -20 to 50°C, Humidity: 15-90 % RH, Volt: 2.3 V DC, Current 110+/-10 mA		
8	Relative Sensitivity : 100 (Volume 5%LEL )		
9	Warranty 12 month from the date of supply		
10	Party to confirm the requirement from BGL executive before quoting & supply		

**3. Portable Oxygen Detector**

S N	Specification Detail	Vendor's comment	
		Yes	No
1	Product service - Portable Single-Gas Detector for Oxygen Detection		
2	Range: O2: 0-30% Vol.		
3	Features: Electrochemical Type, Diffusion Type, LCD Display, Rubber Enclosure.		
5	Auto calibration: Built in self- test and calibration.		
6	System fault: Audible tone / Indication		
7	Power supply: Re-chargeable Batteries with charger.		
8	Battery backup: Minimum 5-8 hours per charge.		
9	Portable: Yes, and shall be handy. External Sampling Pump (SP-Pump101), SENKO-IR Link, Docking Station		
10	<b>Temp &amp; Humidity range: -40°C ~ +50°C(for Toxic) / -35°C ~ +50°C(for O2), 5% ~ 95% RH (non-condensing)</b>		
<b>B</b>	<b>Approval &amp; Certificates:</b>		
1	Ex ia IIC T4 Ga/ IP67 (Korea Ex, IECEX, ATEX, CSA & UL, INMETRO, PESO Supplier shall furnish to Buyer at the time		

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	of shipment all relevant certificates as per Specification & Tender.		
<b>C</b>	<b>Technical Documents:</b>		
1	Bidder shall be required to submit the following in support of their technical competence to undertake the supply as per the Tender Requirements:		
2	Technical details of the materials offered. This shall include technical specifications, dimensions etc.		
3	Hazardous area classification certificate(s) for the materials offered.		
<b>D</b>	<b>Warranty/Guarantee:</b>		
1	The guarantee period 12 months from the date of supply.		
2	Party to confirm the requirement from BGL executive before quoting & supply		

**4. Sensors for Oxygen (O2) Detector**

S N	Specification Detail	Vendor's comment	
		Yes	No
<b>1</b>	<b>Performance</b>		
a	Output: 80-120 $\mu$ A @20.9% O <sub>2</sub>		
b	Response Time: <15Sec		
c	Zero current: <2.5 $\mu$ A in N <sub>2</sub>		
d	Linearity: 0.6% Deviation @ 10% O <sub>2</sub>		
<b>2</b>	<b>For Life Time O2 Sensor</b>		
a	Output drift:<1% change in output@ 3months		
b	Operating life: >24months until 85% original output of 20.9 %		
<b>3</b>	<b>Environmental</b>		
a	Temperature & Humidity -30°C ~ +50°C (for Toxic) / -35°C ~ +50°C (for O2) 5% ~ 95% RH (non-condensing)		
b	CO2 Sensitivity:0.1% Change @5%CO <sub>2</sub>		
	Party to confirm the requirement from BGL executive before quoting & supply		

**1.The Bidder/Vendor will provide the calibration certificates and warranty certificates along with the LEL detectors.**

### **SECTION 6: SPECIAL CONDITIONS OF CONTRACT**

The special conditions of contract shall be read in conjunction with Schedule of rates, scope of work and any other document forming part of contract, wherever Context so requires. In case of any contradictions the Decision of the Engineer-I In-Charge will be final and binding on the Contractor. In case of contradiction between Indian or other applicable Standards, Special Conditions of Contract, Specifications, drawings, Schedule of Rates, the following shall prevail in order of precedence:

- i) Letter of acceptance along with statement of Agreed variations.
- ii) Fax / Letter of Intent / Fax of Acceptance
- iii) Schedule of Rates as enclosures to letter of acceptance
- iv) Job / Particular Specifications
- v) Technical / Material Specifications
- vi) Special Conditions of Contract.

It will be contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) of making the supply with reference which the conflict exists.

#### **1) Delivery Period:**

Duration of this contract for complete execution of job shall be 2 weeks from date of issue of Purchase order for the supply of Natural Gas Leak Detector with CH<sub>4</sub> LEL Sensor at Hyderabad, Vijayawada & Kakinada Gas.

#### **2) LOCATION/SITE INFORMATION: Delivery Address shall be intimated by EIC.**

#### **3) PAYMENT TERMS:**

**The Payment shall be made in the following manner subject to completion of all contractual requirements as per tender document.**

- 100 % (Hundred percent) payment of the supplied portion including taxes & duties will be paid on receipt & acceptance of goods at FOT site after adjustment of PRS, if any along with submission of following documents:
  - i) Original Invoice in triplicate in compliance with GST law in force
  - ii) Inspection Release note by Owner or his appointed or approved agency.
  - iii) Original GR / LR
  - iv) Packing List
  - v) Insurance cover note covering transit insurance
- PACKING & FORWARDING : Included
- FREIGHT : Included

#### **4) CONTRACT PERFORMANCE SECURITY: Not applicable.**

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**5) CONTRACT PRICE:**

The Quoted prices shall be deemed to be inclusive of all taxes including works contract tax, duties, GST tax, and other charges as applicable till the completion of the contract and contractor shall not be eligible for any compensation on this account.

Bidder must quote of full quantity against each quoted item mentioned in the Schedule of Rates of tender document; otherwise, bidder's offer will be liable for rejection.

**6) PROGRESS OF WORK:**

The Contractor shall proceed with the Work under the Contract with due expedition and without delay. The EIC may direct in what order and at what time the various stages or parts of the work under the Contract shall be performed. If the Contractor can reasonably comply with this direction, the Contractor shall do so. If the Contractor cannot reasonably comply, the Contractor shall notify the EIC in writing giving reasons.

**7) CONTRACT VALUE: -**

The value of work under this contract shall be as per quantities mentioned in the SOR. Actual work may vary to any extent plus or minus to the attached quantities and the contractor must do so as per BGL's requirement.

**8) TERMINATION**

If in the opinion of Engineer-In-Charge the performance of Party is not found satisfactory, the contract will be terminated by giving 15 (Fifteen) days' notice. Any loss incurred by the Company on this account shall be recovered from the Party. BGL shall also have the right to complete pending jobs under this contract by engaging any other agency at the risk and cost of original Party.

**9) DEFECT LIABILITY PERIOD for services: Nil**

**10) Guaranty/Warranty:**

- a) The Manufacturer standard warranty for the period of 2 years against the faulty goods or workmanship from the date of receipts of Goods.
- b) The Consumable parts are not included in the warranty.
- c) The warranty covers monitor assembly, power supply, and sensors.

**11) Equipment Specifications**

All the equipment, components and material enumerated under the 'Scope of Supply' would be as per OEM design recommendations. \



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**12) Damages**

BGL will not be responsible for Damages arising out of this Contract and claimed will not cover working losses of profits, losses of stored/in transit goods or consequential damages.





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**SECTION 7: SCHEDULE OF RATES (SOR)**

<b>SCHEDULE OF RATES (SOR)</b>				
<b>BHAGYANAGAR GAS LIMITED</b>				
<b>SOR for Supply of GMI PS 200 Series Portable Gas Detector for Hyderabad, Vijayawada and Kakinada GAs.</b>				
<b>S. No.</b>	<b>Description</b>	<b>Quantity (Nos)</b>	<b>M/s.</b>	
			<b>Unit Price</b>	<b>Total Amount</b>
<b>1</b>	<b>Supply of GMI PS 200 Series Portable Gas Detector</b>	<b>7</b>		
<b>Sub Total</b>				
<b>GST % (In Rs)</b>				
<b>Total Amount including GST in Rupees</b>				