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DEPARTMENT OF FACTORIES & BOILERS

No.A3/3856/F&B/2018(1)

"SURAKSHA BHAVAN"
OFFICE OF THE DIRECTOR OF
FACTORIES AND BOILERS,
MEDICAL COLLEGE P.O,
THIRUVANANTHAPURAM,
DATED: 26 -11-2019.
PHONE: 0471- 2441597,2440974.

E- TENDER NOTICE

Online tenders are invited from the manufactures and authorized dealers for the supply and installation of the following high quality branded equipment.

Sl. No.	Item	Quantity (in Nos.)	Estimate Amount (in Rs.)	EMD	Cost of Tender Form
1	Ammonia Gas Detector	4	6,00,000/-	1 % of the cost of Item	Rs.1200/- +18%GST

Last date for the receipt of filled up Tenders: 4 PM on 21-12-2019

Opening Tender : 2 PM on 26-12-2019

For more details contact Director of Factories & Boilers, Thiruvananthapuram on all working days till 21-12-2019, 4 PM. The under signed reserves the right to reject the tender without assigning any reason thereof. The tender notification is also available in the official Website: www.fabkerala.gov.in. Tender Form and Terms & Conditions may be downloaded from www.etenders.kerala.gov.in.



DIRECTOR OF FACTORIES & BOILERS

SPECIFICATION AND TERMS AND CONDITIONS

Ammonia Gas Detector

Supply, installation and commissioning of Ammonia Gas Detector

Quantity – 4 Numbers

Application

Ammonia gas detectors designed to read/measure real time concentration of anhydrous ammonia in an event of credible leak to initiate emergency response.

The detector designed to detect ammonia leak containing ammonia vapour, fine droplets of liquid ammonia (pure or aqueous) and air (with or without water vapour or condensed water droplets) from refrigerated storages. The detector should have following features:-

- Complete self contained optical ammonia gas detector
- Infrared sensing technology
- Virtually maintenance free
- Minimum ten years operating life
- Immune to poisoning and etching
- Designed for harsh environments
- Explosion proof
- Fast response time
- Smart calibration
- Remote alarm, fault and calibration signals
- Self-compensating optics, pressure and temperature
- No moving parts
- Heated optical chamber
- Low power consumption
- Operates in constant Ammonia background without damage to sensor
- Operates in anaerobic atmospheres
- Fault indications for all failure states
- HART enabled option
- Digital display
- Coupled with transmitter for network applications
- Corrosion resistant construction.

Detailed Detector Specifications

Detection Range	0-10% VOL
Detection Method	Diffusion. Compatible with Optional Sample-Draw Accessories.
Output (analog)	4-20 mA (Source type), HART

Response Time	< 10 seconds
Construction	Anodized aluminum or stainless steel
Accuracy	+/- 5% of value or 0.5% of full scale
Repeatability:	+/- 2% of value
Operating Temperature Rating	-40° to +70°C at 0 to 99% RH (non-condensing)
Data Logging System:	Data Logging system should support real-time data acquisition, display and storage in a PC/ standalone memory card
Certification	Explosion proof

Terms and Conditions:

1. The system is to be delivered, installed and commissioned at the field location indicated by the indenting firm at the time of installation.
2. Training to be provided in the operation, control and maintenance of the detector / Gas Sensor system to the required staff.
3. Complete user manual/ instruction manual with installation drawings describing the operation and control and data processing to be provided.
4. Acceptance of the item will be based on the performance of the detector as per specifications

Additional Information:

Instruction manuals and data sheets, installation drawings, training, wiring, conduit, installation of equipment or labor, certification, validation, warranty, certificate of calibration and after sales service shall be included in the quotation. Taxes, duties, shipping costs, etc. are to be included. Prices shall be in Indian Rupees.



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