

Tender Notification for the procurement of a Colorimetric toxic gas detection system for detection of hydrogen sulfide and hydrogen selenide gases (Last Date for submission of tenders: 2<sup>nd</sup> June 2021)

REF: PH/ASIN/001/2021-22

12<sup>th</sup> May, 2021

A request for quotation from Indian OEM or its authorized Indian Distributor for a Colorimetric toxic gas detection system on **FOR Bangalore basis with value quoted in INR**. The quotation should clearly indicate the terms of delivery, delivery schedule, E.D., transportation charges, if any, payment terms etc. Kindly submit the quotation latest by 2<sup>nd</sup> June, 2021 by email.

With respect to this tender, the rules laid out by the Government of India in order No. P45021/2/2017-PP (BE-II) issued by the Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, dated 04th June 2020, will be followed. Per this order, the government has defined a 'Class-I local supplier' as "a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%". A 'Class-II local supplier' is "a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%". Only 'Class-I' and 'Class-II' local suppliers are eligible to participate in this open domestic tender. Any 'Non-local supplier', i.e., "a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%" is ineligible to participate in this tender

Please enclose a compliance certificate along with the bid. This certificate should have a table that should describe your compliance in a "Yes" or "No" response against each of the items in the specifications listed below. If "No" the second column should state the extent of deviation. The third column should state the reasons for the deviation if any. Please enclose a compliance statement along with the bid. Bids with no statement of compliance will be considered invalid.

**Specifications of Item:** Colorimetric toxic gas detection system for detection of hydrogen sulfide and hydrogen selenide gases in a material synthesis lab with the following specifications:

1. At-least eight-point gas monitor.
2. Colorimetric toxic gas measurement systems (TGMS) for detection of gases, specifically hydrogen sulfide and hydrogen selenide. Electrochemical sensors are not acceptable.
3. Colorimetric technology with optical detection of chemical cassette tape, and reference optical diode.
4. Parallel detection of hydrogen sulphide and selenide, with no cross-detection.
5. The instrument will use single detection (chemical cassette) tape for 8 lab positions (points) to be detected simultaneously.
6. Remote gas sampling by in-built venturi/vacuum pump, that allows rapid detection. Only one pump will be present and will be integrated in the system.
7. Detection of hazardous gases in the following range: hydrogen sulfide (0-1.5 ppm) and hydrogen selenide (0-0.5 ppm). Please quote for one chemical cassette tape as well, that will be usable for 120 days.

8. Programmable high and low faults. High and low faults for hydrogen selenide: 50ppb and 100ppb. High and low faults for hydrogen sulphide: 500ppb and 1000ppb.
9. Capability of upgradation to detect other hazardous gases, without upgrading detection points or detection system. Only consumables (chemical cassette tape) should be modified. Future upgradation of toxic gases include arsine, silane, carbon sulfide.
10. Particulate filters at the point of sampling, 8 in total.
11. The TGMS will accept  $\frac{1}{4}$  inch outer diameter tubing, which will carry the sampled gases to the system.
12. Possibility of integration with external alarm panel and local hooter.
13. Built in user-interface screen with at-least 7" size for simultaneous display and fault detection, as well as real time trend display.
14. Remote access capability with network connection.
15. Working voltage: 220V, 50Hz.
16. The TGMS system should be enclosed in an enclosure made of powder coated steel for use in mildly harsh environment.
17. Warranty:  $\geq$  1year.
18. The vendor/company should have a track record of having previously supplied at least fifteen similar equipment (Colorimetric TGMS) in India in the past five years (please furnish the details). It would be desirable to provide 2-3 reference letters from customers in India.
19. Please include pictures of exact model being offered.

**Terms and conditions:**

1. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
2. Quote to be from Indian OEM or its authorized Indian Distributor and in commercial terms quote should be FOR-IISc Bangalore basis in INR.
3. The payment will be through "net 30 days after delivery and installation" for domestic purchases, and advance payment/LC for foreign purchases as per IISc rules.
4. The lead time for the delivery of the equipment should not be more than 3-4 months from the date of receipt of our purchase order
5. The offer shall be valid at-least 60 days from the date of opening of the bid.
6. The vendors quoting should ideally be registered with IISc, and the quote should ideally carry the vendor registration number in the bid.
7. The covering letter in the bid should clearly mention whether the vendor is a 'Class I' local supplier or a 'Class II' local supplier, failing which the vendor will be automatically disqualified. The vendor should indicate the percentage of the local content and provide self-certification that the items offered meet the minimum local content requirement. They should also give details of the location(s) at which the local value addition was made.

Yours Sincerely,



Akshay Singh