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Department of Metallurgical and Materials Engineering
Indian Institute of Technology, Madras
I.I.T. P.O., CHENNAI – 600 036.

Date: 28.02.2018

Ref. No.

MM	SABI	2018	006
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Due Date: 15.03.2018

Dear Sir,

1. Quotations are invited **in duplicate** for Online Gas Analyzer with Dust Filter, Department of Metallurgical and Materials Engineering, IIT Madras details of which are shown in overleaf.
2. The Quotations **duly sealed and superscribed on the envelope** with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The Quotations should be **valid for ninety days** from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS&D Rate Contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate Contract price. If so, please send copy of the R. C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges, and collected back at the supplier's expenses.
6. **Local Firms:** Quotations should be for free delivery to this Institute, if Quotations are for Ex-Godown delivery charges should be indicated separately.
7. **Firms Outside Madras:** Quotations should be F.O.B. Madras. If F.O.B. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of Sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. **The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which a concessional. Sales Tax Certificate will be issued at the time of final settlement of the bill.**
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

Yours faithfully,

Project Co-ordinator,
Department of Metallurgical and Materials Engineering,
Indian Institute of Technology, Madras
CHENNAI – 600 036

Technical Specifications for Online Gas Analyzer and accessories

The gas analyzer should be online and continuous monitoring type. The purpose is to analyze the gas composition coming out from a reactor which will be working at 1000°C. It should be capable to measure the following gases.

Gas	Measurement range (vol %)
CO	0-50
CO ₂	0-50
CH ₄	0-25
H ₂	0-50
O ₂	0-50
N ₂	Rest

The gas analyzer should be triggered with software compatible to window 7 or 10.

Accessories:

A dust filter and a sample gas cooler are also required attached to the gas analyzer.

Apart from lowest budget, priority will be given to highly sensitive sensors.

Installation & commissioning:

- The gas analyzer shall be installed and commissioned at our site by a company specialist and suitable trials shall be undertaken along with the startup training excluding commissioning hours.

In order to get confidence of “after-sale service” of an agent/ supplier, we require that supplier/Indian agent should have had the experience of supplying and installations of at least five such unit across India in reputed research organizations and CFTI (centrally funded technical institutes) academic institutes (such as IITs or IISc or IISERs or NITs across India) in last 5 years.

The catalogue containing technical specification with the quotation failing which the offer is liable to rejected.

Quotations duly sealed and superscribed on the envelope with reference No. and due date should be address to

Sabita Sarkar

**Project Co-ordinator,
Department of Metallurgical and Materials Engineering,
Indian Institute of Technology, Madras,
Chennai 600036**