

**Ref: MRC/NR/2016-17**

**Tender Notification for the procurement of Chemisorption/physisorption/micropore analyser at IISc (Last date for submission of tenders: November 30, 2016)**

Dear Sir/Madam:

Please send your best quote (in two parts: (a) technical and (b) commercial in 2 separate sealed covers) as per the technical specifications given below, latest by **5 pm on November 30, 2016** to the undersigned.

**Technical Specifications**

**A. Main Instrument**

1. Chemisorption/physisorption/micropore analyser for determination of active metal surface area and dispersion by chemical adsorption.
2. The system should be capable of measuring specific surface area and pore size distribution by physical adsorption.
3. Also, the system should be equipped for TPR, TPD, TPO, single-point BET and pulsed chemisorption analysis.
4. The system should be able to analyze standard mesopore, micropore and low-surface area materials.

**Following are the minimum requirements:**

Compatible Gases: He, Kr, N<sub>2</sub>, Ar, O<sub>2</sub>, CO, H<sub>2</sub>, NH<sub>3</sub>, CH<sub>4</sub>, CO<sub>2</sub>, etc.

Minimum Surface area measurement: 0.1 m<sup>2</sup> g<sup>-1</sup>

Pore volume measurement: 0.0001-0.15 cm<sup>3</sup>

Temperature range for the furnace: 50-1100 °C

Working Modes: TPD, TPR, BET-single point, Pulse chemisorption (titration) and TPO.

**B. Pricing:** CIP Bangalore with quotes valid for 90 days

The above-mentioned technical specifications are highly desired. However, lower technical specifications may be considered if the above mentioned specifications are found to be unsuitable in financial terms. **The Institute reserves the right to go for lower specifications taking into consideration its financial constraints and technical preferences.**

**Terms and conditions:**

1. The vendor should have a track record of having previously supplied similar equipment in India.
2. The vendor should have qualified technical service personnel for the equipment based in India.
3. A minimum of 1 year warranty with option of an extended warranty.

Sincerely,

The Chairman

Attn: Ravishankar Narayanan

Materials Research Center,

IISc Bangalore-560012, India (on behalf of the purchase committee)