



Tender Notification for the procurement of Close Cycle He Cryostat for High Pressure Diffraction at a beamline of the Italian synchrotron centre, Elettra, Trieste

Dear Sir/Madam,

Your quotation should clearly indicate the terms and conditions of the quotations, delivery, delivery schedule, entry tax, payment terms, warranty coverage etc. The quotation should be submitted in two parts: Part I (Technical bid) and part II (Commercial bid) and both should be submitted in a sealed envelope. Technical bid should be exactly same as commercial bid except that prices are not shown in the technical bid. Technical bid should have item wise compliance report of all specifications. The commercial bid should have pricing for the items quoted in the technical bid. Prices quoted should be inclusive of all taxes/ duties. The prices quoted should be inclusive of delivery of the items to the site and installation at site. The offer should be valid for a period of at least 60 days from the last date for submission of quotes. Your quotation duly signed and sent in sealed envelope should reach us at the following address by 20 September, 2019.

Prof. D. D. Sarma
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Important: The item will be installed at the Italian synchrotron centre Trieste, Italy and has to be delivered directly to C/o Dr. Bobby Joseph, Laboratorio Fisica Applicata/Esperimenti Turbolenza del Centro di, Fisica Teorica Abdus Salam, presso Edificio ES3 della Sincrotrone Trieste S.C.p.A. Strada Statale 14 - km 163,5 in AREA Science Park, 34149 Basovizza, Trieste ITALY

Technical Specifications:

- Pressure range : ambient to 50 GPa (DAC culet size 400 micron)
- Diamonds type II A
- Low thermal expansion support structure (bench-top cryostat with appropriate control heater and silicon diode temperature sensor)
- Low vibration and drift (less than few microns)
- Temperature minimum at the sample – required at least 15k, desirable down to 10 K
- Standard vacuum shroud with appropriate windows for x-ray and optical (white light and laser) probes.
- X-ray opening : minimum 60 degree
- Vacuum shroud should be as slim as possible to permit the use of commonly available pressure ruby luminescence set up (focal spot from objective -- 33 mm) for pressure measurements from the DAC inside the cryostat.
- Good Temperature stability

The quotations should also include all the necessary accessories such as temperature controller, vacuum pumps, liquid He transfer lines etc.