Dear Sirs,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of "UV-Vis-IR Spectrometer” conforming to the specifications given below.

(i) Preparation of Bids:-  The tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.

(ii) Delivery of the tender:- The tender shall be sent to the below-mentioned addresses either by post or by courier so as to reach the undersigned on or before the due date 01.08.2014.

(iii)Opening of the tender:- The offer/Bids will be opened by a committee duly constituted for this purpose.  The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements.  The financial offer/bid will be opened only for the offer/bids which technically meet all our requirements as per the specification.

(iv)Prices:- The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to Various Institutions.  The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable.  However the percentage of tax & duties should be clearly indicated.

(v)The price should be quoted without custom duty and excise duty, since I.I.T. Madras is exempt from payment of excise duty, and the custom duty will be paid at concessional rate against duty exemption certificate.

(vi)In case of import supply, the price should be quoted on FOB and CIF basis indicating the mode of shipment.

(vii) Agency Commission:-   Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of ‘Nil’ commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent.

(viiii) Terms of Delivery:-  The item should be supplied to our Various Institutions as per Purchase Order.  In case of import supply, the item should be delivered at the cost of the supplier to our Institution.  The Installation/Commissioning should be completed as specified in our important conditions.

### Specification for UV-Vis- IR Spectrometer

### Computer controlled UV-Vis-IR Spectrometer system for advanced research work with true Double beam, dual chopper ratio recording spectrometer with Czerny Turner monochromator (focal length better than 0.25 m. Grating should be 1200 lines/mm or better with a dimension of not less than 30 x 30 mm). The Source should be D2 and Tungsten lamp. The detector should be Photomultiplier tube with at least a range 190-900 nm. UV-Vis-IR Spectrometers with less sensitive silicon photodiode or CCD detectors are not accepted. The measurable range is 190-900 nm and the spectral Bandwidth should be a variable from 0.2 to 4.0 nm in 0.1 nm steps, fully software controlled for advanced research use.

### The spectral Resolution should be less than or equal to

### 0.19 nm or better and stray Light should be less than or equal to 0.0013% or better at 370 nm. In addition the

### Photometric Linear Range should be at least 4 Abs or better

### and the display range should be ± 9.9 Abs or better.

### The accuracy of the Wavelength is ± 0.02 nm or better with

### the wavelength reproducibility ± 0.008 nm (Peak

### separation) or better. The photometric Accuracy is at

### least ±0.003 Abs or better.

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### The accessories for the unit should be the Diffuse reflectance integrating sphere with sphere diameter of better than 70 mm for powder and solid samples. Integrating sphere has to be quoted with proper reference material for background correction (better to quote powder cell holder). A pair of quartz cuvettes has to be quoted standard with the instrument.