



NATIONAL MUSEUM INSTITUTE

OF HISTORY OF ART, CONSERVATION AND MUSEOLOGY

(Deemed to be University)

First Floor, National Museum Campus, Janpath, New Delhi-110011

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QUOTATION/TENDER NOTICE

Date: 19-02-2018

Supply of Low cost, portable FTIR spectrometer for application in Archaeology and Art Conservation

The department of Conservation of this Institute requires Low cost, portable FTIR spectrometer for application in Archaeology and Art Conservation as per following specifications:

Instrument	Low cost, portable FTIR spectrometer for application in Archaeology and Art Conservation
Spectral Range	500-6000 cm^{-1} or better
Spectral resolution	2 cm^{-1} or better
Wave number accuracy	0.1 cm^{-1} or better
Signal-to-noise ratio	50,000:1 or better
Optics	ZnSe beam splitter optics, optical unit sealed and desiccated for application in humid conditions, all mirror gold coated.
Interferometer	Permanently aligned, high stability for field operations, non-hygroscopic windows to work under humid conditions.
Detector	High sensitivity detector
Accessories	Single Reflection ATR with Diamond prism and External Reflection module for the applications related to art conservation and archaeology to be included. Sampling modules must be automatically identified and spectral test routines must automatically start to verify accessory performance.
Software	PC based Software for data measurement, manipulation and evaluation with a step by step assistance. Should include search capabilities as well as the possibility to create user own libraries. Should include quantitative analysis, data processing, peak picking, peak height, peak area, peak width, smoothing, baseline correction, subtraction, etc. Must contain a comprehensive library of ATR spectra of polymers, monomers, additives, plasticizer, fillers, building materials, excipients, organic and inorganic chemicals fibres, proteins, fatty acids, lipids, ingredients, natural products, pigments, minerals, silicon containing compounds, etc.
Miscellaneous	Tripod stand and battery pack and other necessary items should be quoted with the equipment. Windows based laptop computer and related accessories should be quoted as optional.

We invite quotation from the authorized distributors/dealers/suppliers of the above items mentioning the lowest rate, terms and conditions of supply & payment etc. under a sealed envelope superscribed as "***Quotation for Low cost, portable FTIR spectrometer for application in Archaeology and Art Conservation***" to the office of **Registrar, National Museum Institute, Janpath, New Delhi-110011**, latest by **05-03-2018** at **05.00 pm**. The validity of quotation/rates should be atleast 30 days from the last date of submission of quotation. This Institute reserves the right to accept/reject any or all quotations without assigning any reason/notice thereof.

(Dr Praduman K. Sharma)
Registrar