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04.03.2021

Department of Chemical Engineering

Corrigendum-1

Tender Reference no: CH/2021/IOEEOE/172/FTIR

Name of the Item: FTIR spectrometer with DRIFTS attachment

Corrigendum details: Changes in Technical specification and Extension of Bid Submission Date.

Changes in Technical specification and Extension of Bid Submission Date:

Technical specifications for FTIR spectrometer with DRIFTS attachment

Scope

IIT Madras is looking to investigate catalytic systems using in-situ DRIFTS analysis over a range of operating temperatures and pressures. The requirement is of a complete end-to-end system for this purpose. The following specifications should be met to qualify the technical bid.

Requirements:

FTIR spectrometer with following specifications

Ready for DRIFTS accessory

Upgradeable to include ATR, GC and Raman modules

Compatible with FTIR microscope and TGA accessory

Spectral resolution: $< 0.1 \text{ cm}^{-1}$

One touch sampling operation

Liquid nitrogen cooled MCT Detector (Mercury Cadmium Telluride) with 4500-600 cm^{-1} range.

ZnSe window, of suitable dimensions

Complete set of spectral data processing tools

Complete library of infrared spectra

Software with capability to perform background corrections in an automatic mode.

Compatible Diffuse reflectance accessory

High Temperature Reaction Chamber with dome for DRIFTS Accessory

2 ZnSe windows and 1 observation window

Operating T 25-900 °C

Pressure range 1milliPa – 1.5mega Pascal Or better

Dewar flask

Sampling cups
Compatible computer

Power cord: 230 V, 50-60 Hz, Indian socket

Warranty details and extra two years of AMC

Extension of Bid Submission Date:

The due date for the submission of bids has been extended to 12/03/2021 @ 3 PM & the technical bid opening is 12/03/2021 @ 4 PM

Tender Inviting Authority:

The Senior Manager, Project Purchase,
I.I.T. Madras, Sardar Patel Road,
IC & SR Building, 2nd floor, Chennai – 600 036