NATIONAL INSTITUTE OF HYDROLOGY
ROORKEE

Minutes of the Pre-bid Meeting for the purchase of Fourier Transform Infrared Spectroscopy (FTIR Microscope) held on 31.03.2023 at National Institute of Hydrology, Roorkee

Tender Reference: NHP/NIH/FTIR/2023 dated 20.03.2023

The following committee constituted by the competent Authority for holding the pre-bid meeting for **Fourier Transform Infrared Spectroscopy (FTIR Microscope)** met on 31.03.2023 at 11.00 AM in Manthan Hall of National Institute of Hydrology, Roorkee:

1. Dr. Anupma Sharma, Sc. G
2. Dr. M. K. Sharma, Sc. F
3. Dr. Rajesh Singh, Sc. D
4. Dr. Gopal Krishan, Sc. D
5. Ms. Anjali, Sc. C & Indenter

The following three firms have participated in the pre-bid meeting and submitted their suggestions / observations on the tender document / specifications:

i) M/s Bruker India Scientific Pvt. Ltd., New Delhi
ii) M/s Perkin Elmer Pvt. Ltd., New Delhi
iii) M/s Thermo Fisher Scientific India Pvt. Ltd., Noida

The following representatives of the firms attended the pre-bid meeting:

i) Mr. Jetinder Sikri, M/s Bruker India Scientific Pvt. Ltd., New Delhi
ii) Mr. Saurabh Jain, M/s Perkin Elmer Pvt. Ltd., New Delhi
iii) Mr. Tanzin Negi, M/s Thermo Fisher Scientific India Pvt. Ltd., Noida

Suggestions / observations of the firms have been discussed in detail and decision taken by the committee as follows for more competitive bidding:

[A] Suggestions of M/s Bruker India Scientific Pvt. Ltd., New Delhi & M/s Thermo Fisher Scientific India Pvt. Ltd., Noida

Point No.	Tender Specification	Suggestion / Observation	Decision
1.	**General** • The system must have three detectors (MCT, DTGS/DLaTGS and Linear array detector/FPA) for microscopic analysis, and should be selectable through software or without any manual intervention.	• The system must have **two** detectors [DTGS/DLaTGS and Linear array (MCT) detector/FPA] for microscopic analysis, and should be selectable through software or without any manual intervention.	The system must have two detectors [DTGS/DLaTGS and Linear array (MCT) detector/FPA] for microscopic analysis, and should be selectable through software or without any manual intervention.
2.	**Spectral Range in FTIR:** 7500 to 350 cm^{-1} or better for MIR and Minimum frequency of 30 cm^{-1} for FIR.	**Spectral Range in FTIR:** 7500 to 350 cm^{-1} or better for MIR and Minimum frequency of **50** cm^{-1} for FIR.	**Spectral Range in FTIR:** 7500 to 350 cm^{-1} or better for MIR and Minimum frequency of **50** cm^{-1} for FIR.
3.	**Detector: 1.** Temperature stabilized DTGS/DLaTGS 2. Liquid Nitrogen Cooled two detectors MCT and Linear array detector/FPA for microscopic analysis.	**Detector: 1.** Temperature stabilized DTGS/DLaTGS 2. Liquid Nitrogen Cooled Linear array **(MCT)** detector/FPA for microscopic analysis.	**Detector: 1.** Temperature stabilized DTGS/DLaTGS 2. Liquid Nitrogen Cooled Linear array **(MCT)** detector/FPA for microscopic analysis.

4.	**Licensed Library:** Original and licensed Spectral libraries of at least 30,000 compounds of standard make (such as: ST Japan or Bio-Rad or similar standards) with traceable numbers, with option to choose need based from the following compounds: .The library should have Dedicated composition to comply for micro-plastic analysis and option to choose need based from the following compounds: Polymer, monomers, Additives, Plasticizers, Filllers, organic and inorganic chemicals, bio-chemicals, Fibers, proteins, fatty acids, lipids, ingredients, natural products, pesticides, dyes, paints, coatings, food additives, minerals, Forensics, Narcotics, lubricants, surfactants, pharmaceuticals, drug, building materials, excipients	Original and licensed Spectral libraries of at least **25,000** compounds of standard make (such as: ST Japan or Bio-Rad or similar standards) with traceable numbers, with option to choose need based from the following compounds: The library should have Dedicated composition to comply for micro-plastic analysis and option to choose need based from the following compounds: Polymer, monomers, Additives, Plasticizers, Filllers, organic and inorganic chemicals, bio-chemicals, Fibers, proteins, fatty acids, lipids, ingredients, natural products, pesticides, dyes, paints, coatings, food additives, minerals, Forensics, Narcotics, lubricants, surfactants, pharmaceuticals, drug, building materials, excipients	Original and licensed Spectral libraries of at least **25,000** compounds of standard make (such as: ST Japan or Bio-Rad or similar standards) with traceable numbers, with option to choose need based from the following compounds: The library should have Dedicated composition to comply for micro-plastic analysis and option to choose need based from the following compounds: Polymer, monomers, Additives, Plasticizers, Filllers, organic and inorganic chemicals, bio-chemicals, Fibers, proteins, fatty acids, lipids, ingredients, natural products, pesticides, dyes, paints, coatings, food additives, minerals, Forensics, Narcotics, lubricants, surfactants, pharmaceuticals, drug, building materials, excipients
5.	**Spectral Range in Microscope/Imaging System:** Should cover 7000-600 cm^{-1} with detector MCT/Linear array/ FPA/CCD detector	**Spectral Range in Microscope/Imaging System:** Should cover 7000-600 cm^{-1} with detector **Linear array (MCT)**/FPA detector	**Spectral Range in Microscope/Imaging System:** Should cover 7000-600 cm^{-1} with detector **Linear array (MCT)**/FPA detector
6.	**Microscope Detector Capability (MCT with linear array/FPA/CCD Any other detector):** It should be able to map the designated area and generate image with minimum speed 150 spectra/second or better.	**Microscope Detector Capability [Linear array (MCT)/FPA]:** It should be able to map the designated area and generate image with minimum speed 150 spectra/second or better.	**Microscope Detector Capability [Linear array (MCT)/FPA]:** It should be able to map the designated area and generate image with minimum speed 150 spectra/second or better
7.	**Imaging Signal to Noise Ratio**: >400:1 or better with linear array /FPA/CCD detector	**Imaging Signal to Noise Ratio**: >400:1 or better with **linear array (MCT)** /FPA detector	**Imaging Signal to Noise Ratio**: >400:1 or better with **linear array (MCT)** /FPA detector

M/s Perkin Elmer Pvt. Ltd., New Delhi also agreed on the above suggestions/observations made by M/s Bruker India Scientific Pvt. Ltd., New Delhi & M/s Thermo Fisher Scientific India Pvt. Ltd., Noida. Further, it is proposed to extend the Bid submission End Date from 27 April 2023 04:00 PM to 12 May 2023 04:00 PM and may kindly be approved with above recommendation.

Not present.

(Anjali)
Sc. 'C'

(Gopal Krishan) 17/4/2023
Sc. 'D'

(Rajesh Singh) 17.04.23
Sc. 'D'

(M. K. Sharma) 17/4/23
Sc. F

(Anupma Sharma) 17/4/23
Sc. G

Government eProcurement System

eProcurement System Government of India

Published Corrigendum Details

Date : 25-Apr-2023 03:11 PM

Print

Organisation Chain :	National Institute of Hydrology - Roorkee - World Bank Tenders
Tender ID :	2023_NIHWB_745923_1
Tender Ref No :	NHP/NIH/FTIR/2023
Tender Title :	Fourier Transform Infrared Spectroscopy (FTIR Microscope) Imaging System
Corrigendum Type :	Date

Corrigendum:1

Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size(in KB)
Opening Date Extend	Opening Date Extension	25-Apr-2023 03:11 PM	CorrigendumFTIR.pdf	107.95

Critical Dates			
Publish Date	20-Mar-2023 04:00 PM	**Bid Opening Date**	12-May-2023 04:30 PM
Document Download/Sale Start Date	20-Mar-2023 04:30 PM	**Document Download/Sale End Date**	12-May-2023 04:00 PM
Clarification Start Date	NA	**Clarification End Date**	NA
Bid Submission Start Date	20-Mar-2023 04:30 PM	**Bid Submission End Date**	12-May-2023 04:00 PM
Pre Bid Meeting Date	31-Mar-2023 11:00 AM		

Details Before Corrigendum

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Publish Date	20-Mar-2023 04:00 PM	**Bid Opening Date**	27-Apr-2023 04:30 PM
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Clarification Start Date	NA	**Clarification End Date**	NA
Bid Submission Start Date	20-Mar-2023 04:30 PM	**Bid Submission End Date**	27-Apr-2023 04:00 PM
Pre Bid Meeting Date	31-Mar-2023 11:00 AM		