



**निविदा सूचना शुद्धि पत्र/ CORRIGENDUM to Tender Document for Supply, Installation and Commissioning of FOURIER TRANSFORM INFRARED SPECTROMETER .  
(Tender Reference No. : SROL/PUR/04/FTIR)**

**INVITED BY**

**Scientist E & Head, BUREAU OF INDIAN STANDARDS , Southern Regional Office Laboratory (SROL), IV Cross Road, Taramani, Chennai 600 113 Ph: 044-22541208, 22541216  
mail id : [srol@bis.org.in](mailto:srol@bis.org.in)**

**द्वारा आमंत्रित**

वैज्ञानिक ई और हेड भारतीय मानक ब्यूरो, दक्षिणी क्षेत्रीय कार्यालय प्रयोगशाला, चौथा क्रॉस रोड तारामानी, चेन्नई 600 113 Ph: 044-22541208, 22541216 mail id : [srol@bis.org.in](mailto:srol@bis.org.in)

यह सभी संबंधित को सूचित किया जाता है कि 25 03 2017 को जारी किए गए निविदा को प्रस्तुत करने की आखिरी तारीख अब 28/04/17 तक 1400h तक बढ़ा दी गई है। तकनीकी बोली उसी दिन 28/04/17 1430h पर खोली जाएगी। अनुलग्नक -3 में दी गई विनिर्देश और अनुलग्नक -4 में दिए गए तकनीकी अनुपालन वक्तव्य को निम्नानुसार संशोधित किया गया है।

This is to bring to the notice of all concerned that last date of submitting the tender floated on 25 03 2017 is now extended upto 28/04/17 up to 1400h and the Technical bid will be opened on the same day ie 28 04 2017 at 1430h. The specification given at Annexure -3 and the Technical compliance statement given at Annexure-4 are revised as follows.

बोलीदाताओं को सलाह दी जाती है कि इस शुद्धि में जारी किए गए तकनीकी विनिर्देश और तकनीकी अनुपालन वक्तव्य के संशोधन के अनुसार बोलियां जमा करनी होंगी, जिसके बिना बोलियां अवैध मानी जाएंगी।

The bidders are advised to submit the bids as per the revision of Technical specification and technical compliance statement issued in this corrigendum only failing which the bids will be considered as invalid.

जिन लोगों ने पहले ही अपनी बोलियां जमा कर दी हैं उन्हें ईएमडी सहित सभी मामलों में ताजा बोलियां जांचने और पुनः केवल इस शुद्धि के अनुसार जमा करने की सलाह दी जाती है, अन्यथा बोली को अमान्य माना जाएगा।

Those who have already submitted their bids are advised to examine and re-submit fresh bids complete in all respects including EMD , in accordance with this corrigendum only, failing which the bids will be considered as invalid.

## Annexure3

**Technical Specification of Fourier Transform Infrared Spectrometer(FTIR)**

S.No	Components/ Fixtures/ Accessories/ Spare parts/ CRMs etc.	Requirement
(1)	(2)	(3)
1.	Fourier Transform Infrared Spectrometer – Specification (FT-IR)	1.Wavelength range (Mid IR): 5100-600 $\text{cm}^{-1}$ or better 2.Dynamically or Permanently aligned Michelson interferometer 3.Beam splitter: KBr/ZnSe 4.Detector: DLaTGS/DTGS/MID-IR 5.Sealed and desiccated optics 6.Wave number Accuracy : 0.1 $\text{cm}^{-1}$ or better 7. Signal to Noise ratio : 30000:1 or higher. 8. Resolution: 1 $\text{cm}^{-1}$ or better. 9. System should not be kept ON when not in use. No nitrogen purging should be required. 10. IQ/OQ Shall be performed and document shall be submitted
2.	Accessories including those needed for testing Packaged Drinking Water, Powder & other liquids.	1. Liquid sample holder – universal demountable cell 2. KBr plates for film samples 3. Include standard consumables kit with extra rechargeable desiccants 4. Pellet holder for samples 5. Hydraulic press, die set 6. Transmission Module 7. 1cm and 5 cm path length quartz cell 8. Suitable portable de-humidifier 9. One polystyrene film having NIST traceable certificate 10. Universal ATR
3.	Interface	1. USB or Ethernet connection for FT-IR operation to be provided 2. Power Supply : 230 V, 50/60 Hz
4.	Computer & Software	Instrument to be provided with compatible computer with windows 7 OS, UPS with 30 min backup and laser printer. Include licensed version of software and installation Kit. Software should be capable of performing all the basic operations like qualitative & quantitative analysis, principal component analysis, data conversion and corrections, spectrum processing, etc. FT-IR spectral library shall be provided which is suitable for identification of unknown oils,grease,plastics,etc
5.	Warranty	Warranty period shall be three years from the date of successful installation of equipment. Onsite Comprehensive Annual Maintenance Contract to be provided for three years after warranty as per tender conditions

6.	After Sales Service	Onsite Comprehensive Annual Maintenance Contract to be provided for three years after warranty as per tender conditions at the location where instrument has been installed.
7.	Training	Training to be given at our site at no additional cost. It should also include demonstration of the required application for testing of oils and greases in Packaged Drinking Water and training in all accessories during installation.
8.	Technical Compliance	Technical Compliance Statement along with proper technical literature to be submitted.

Annexure 4

**Technical compliance statement by the bidder for Fourier Transform Infrared Spectrometer(FTIR)**

Sl.No.	Technical Specification (Annexure 3)		Quoted details by the bidder	Deviation from col (2), if any	Remarks
	Component	Requirement			
1.	<b>Fourier Transform Infrared Spectrometer – Specification (FT-IR)</b>	1.Wavelength range (Mid IR): 5100-600 $\text{cm}^{-1}$ or better 2.Dynamically or Permanently aligned Michelson interferometer 3.Beam splitter: KBr/ZnSe 4.Detector: DLaTGS/DTGS/MID-IR 5.Sealed and desiccated optics 6.Wave number Accuracy : 0.1 $\text{cm}^{-1}$ or better 7. Signal to Noise ratio : 30000:1 or higher. 8. Resolution: 1 $\text{cm}^{-1}$ or better. 9. System should not be kept ON when not in use. No nitrogen purging should be required. 10. IQ/OQ Shall be performed and document shall be submitted.	(3)	(4)	(5)
2	<b>Accessories including those needed for testing Packaged Drinking Water, Powder &amp; other liquids.</b>	1. Liquid sample holder – universal demountable cell 2. KBr plates for film samples 3. Include standard consumables kit with extra rechargeable desiccants 4. Pellet holder for samples 5. Hydraulic press, die set 6. Transmission Module 7. 1cm and 5 cm path length quartz cell 8. Suitable portable de-humidifier 9. One polystyrene film having NIST traceable certificate 10. Universal ATR			
3	<b>Interface</b>	1. USB or Ethernet connection for FT-IR operation to be provided 2. Power Supply : 230 V, 50/60 Hz			
4	<b>Computer &amp; Software</b>	Instrument to be provided with compatible computer with windows 7 OS, UPS with 30 min backup and laser printer. Include licensed version of software and installation Kit. Software should be capable of performing all the basic operations like qualitative & quantitative analysis, principal component analysis, data conversion and corrections, spectrum processing, etc. FT-IR spectral library shall be provided which is			

		suitable for identification of unknown oils,grease,plastics,etc			
5	Warranty	Warranty period shall be three years from the date of successful installation of equipment. Onsite Comprehensive Annual Maintenance Contract to be provided for three years after warranty as per tender conditions.			
6	After Sales Service	Onsite Comprehensive Annual Maintenance Contract to be provided for three years after warranty as per tender conditions at the location where instrument has been installed.			
7	Training	Training to be given at our site at no additional cost. It should also include demonstration of the required application for testing of oils and greases in Packaged Drinking Water and training in all accessories during installation.			
8	Technical Compliance	Technical Compliance Statement along with proper technical literature to be submitted.			

**Note:**

Do not mention **“We Comply or Complied with or yes”** in your response at col (3)

Quote the actual specifications of equipment to be supplied in col (3).

Deviations, if any, from col (2) be quoted in col (4).

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