

Date: 21.02.2024

CORRIGENDUM /ADDENDUM - 01

It is notified to all concerned parties that with reference to our **Tender No. IITH/SATHI/SHOURYA/2023/G/T072** dated: **12.02.2024**, the following changes are being made w.r.t. the Tender: -

The following changes should be read as part of the technical specifications. Unless otherwise mentioned, other items remain the same as before.

S. No.	Existing	Amended to
1	<u>FT-IR Spectrometer</u>	
1(C)	Source: <ul style="list-style-type: none"> Infrared source must have a guaranteed lifetime of 8 years (or more) and must be user replaceable. 	Source: <ul style="list-style-type: none"> Infrared source must have a guaranteed lifetime of 5 years (or more) and must be user replaceable.
1(D)	Interferometer: <ul style="list-style-type: none"> The Michelson interferometer must be a dynamically aligned with guaranteed lifetime of 10 years (or more). ●The interferometer must be capable of spectral resolution better than 0.1 cm⁻¹ (or smaller). ●The signal to noise ratio should be 65000:1 (or higher) when measured at 4 cm⁻¹. ●The system should have a wavelength precision of 0.001 cm⁻¹(or lower). ●The wavelength accuracy and ordinate linearity must be better than 0.005 cm⁻¹ and 0.07% T, respectively. ●The instrument must include buttons for single press operations for all sampling locations. 	Interferometer: <ul style="list-style-type: none"> ● The Michelson interferometer must be a dynamically aligned or permanently aligned with guaranteed lifetime of 10 years (or more). ● The Spectrometer must be capable of spectral resolution better than 0.4 cm⁻¹, ● The signal to noise ratio should be 55000:1 (or higher) when measured at 4 cm⁻¹. ● The system should have a wavenumber precision of 0.005 cm⁻¹ (or better). ● The instrument must include buttons for single press operations for all sampling locations or it should be possible to change through software. ● These buttons or software based buttons must cause the spectrometer to

	<ul style="list-style-type: none"> • These buttons must cause the spectrometer to set up the optics for a specific sampling location and select the correct experimental parameters file. 	<p>set up the optics for a specific sampling location and select the correct experimental parameters file.</p>
1(E)	<p>Detectors:</p> <ul style="list-style-type: none"> • A liquid nitrogen cooled MCT detector (11700-600 cm^{-1}) with LN2 hold time of 15 hours or better for continuous operation should be quoted as optional. 	<p>Detectors:</p> <p>A liquid nitrogen cooled MCT detector (11700-600 cm^{-1}) with LN2 hold time of 12 hours or better for continuous operation should be quoted as optional.</p>
1(F)	<p>Performance verification and validation:</p> <ul style="list-style-type: none"> • The wheel must provide beam attenuation screens for high sensitivity detectors, NG-11 glass (or equivalent) for detector linearity test and NIST-traceable (or equivalent) 1.5 MIL (38 microns) polystyrene film. 	<p>Performance verification and validation:</p> <p>The wheel must provide beam attenuation screens for high sensitivity detectors, NG-11 glass (or equivalent) for detector linearity test and NIST-traceable (or equivalent) 1.5 MIL (38 microns) polystyrene film or other equivalent screens for testing/validating the detectors should be included.</p>
2	FTIR- Microscope	
2(A)	<p>Detector:</p> <ul style="list-style-type: none"> • The FTIR microscope must have MCT detector with spectral range of 7800 – 650 cm^{-1}. • The detector LN2 dewar should have a hold time of 15 hrs (or more) 	<p>Detector:</p> <ul style="list-style-type: none"> • The FTIR microscope must have MCT detector with spectral range of 6000 – 650 cm^{-1} (or greater range). • The detector LN2 dewar should have a hold time of 12 hrs (or more)
3	Software:	
	<ul style="list-style-type: none"> • The software should control the motorized stage for experimental setup, automated stage ejection, insert and position to the reference point. • 	<ul style="list-style-type: none"> • The software should control the motorized stage for experimental setup, automated stage ejection & insert, point mapping, area mapping, line mapping and position to the reference point.

All other terms and conditions of the tender remain unchanged. Bidders, who have already submitted their bids prior to issue of this corrigendum need to submit again.