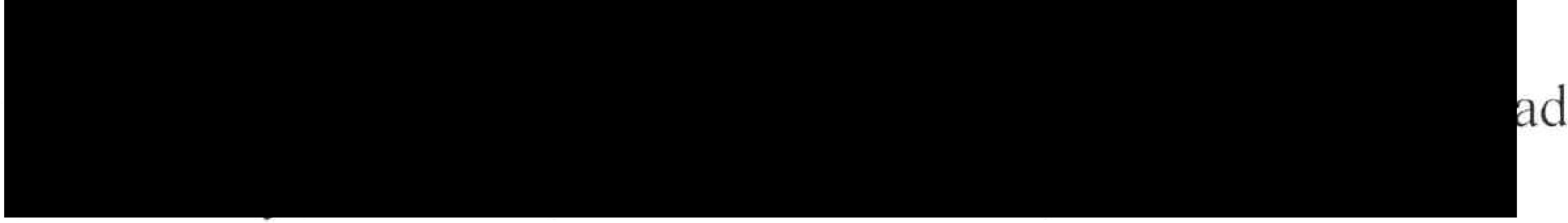


MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

1. Date: 04/10/2024 (Prebid Meeting)
2. Time: 11:00 am
3. Venue: Meeting Room, National Forensic Sciences University, Dharwad Campus

Technical Evaluation committee members



Special Invitee:



The following Bidders' Representatives attended the pre-bid meeting:

Sr. No.	Name of prospective bidders/Firm
1	Vajra BioMetrix Pvt. Ltd.
2	Kwick Soft Solutions

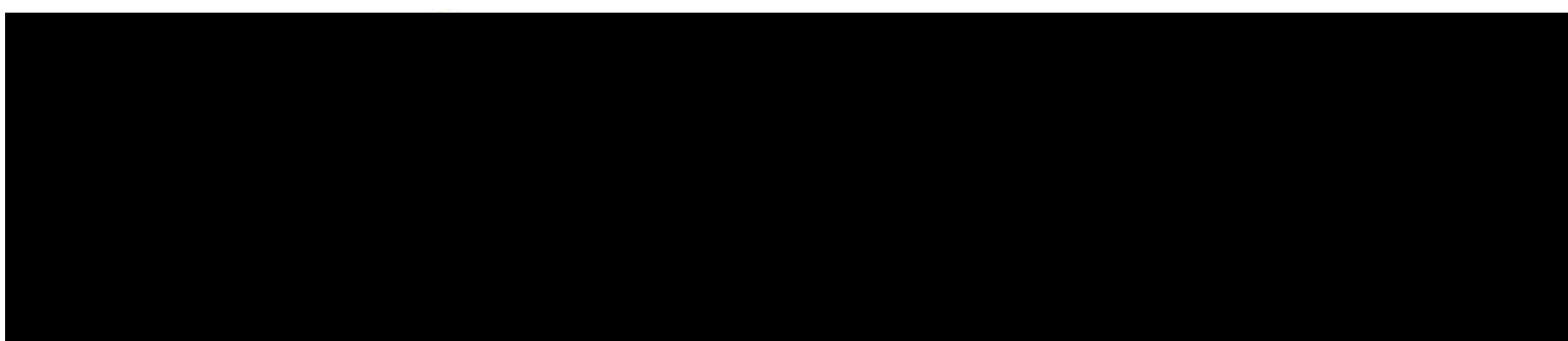
The following companies showed representation by email:

Sr. No.	Name of prospective bidders/Firm
1	Vajra BioMetrix Pvt. Ltd.
2	Kwick Soft Solutions
3	Perceptive Biotech
4	Geo Informatics Consultants Pvt. Ltd.

The queries received from various companies were discussed and clarified. The same have been provided in annexure I.

The committee has recommended to upload the amended specifications as given in annexure II.

The end date for the bid can be extended to 04-11-2024 from 25-10-2024.



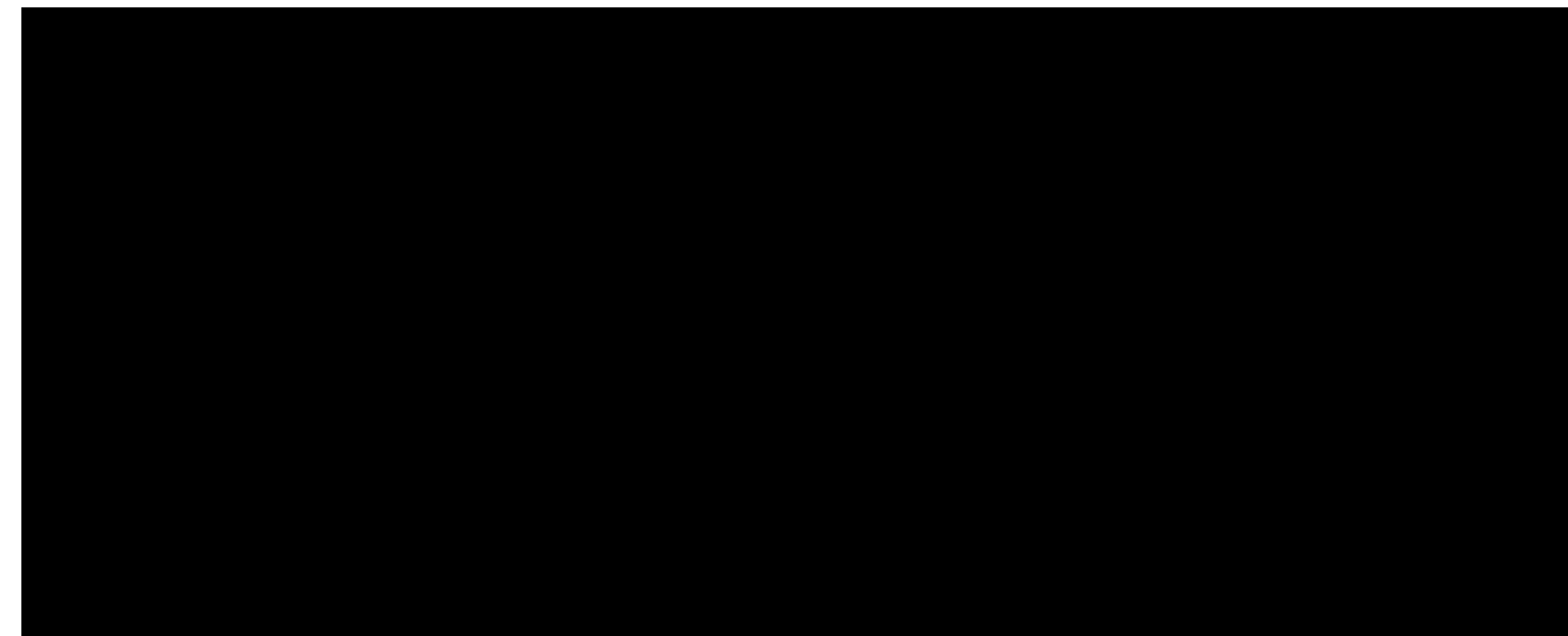
MEETING MINUTES FOR TENDER NO: GEM/2024/B/542717

For Item Category: Advanced Document Examination System

Annexure I

Vajra BioMetrix Pvt. Ltd.

Parameter	Tender Specifications	Query/Clarification/Suggestion	Response
Monitor Options	10-megapixel colour camera or more	8 MP or 10 Mega Pixel Color Camera or more	Committee has not recommended
Field of view	214 mm x 179 mm or more	214 x 179 mm (or) 210 x 160 mm (or) More	Committee has recommended to keep the existing specification and allow a deviation of (±10%)
Magnification range	2.9x - 224x with monitor	1.7x to 130x with monitor or 2.9x - 224x with monitor or more with monitor	Committee has recommended to add "or better" to the existing specification
	3840 x 2160 pixels exciting filter module for 113 different waveband combinations between 380 nm and 800 nm	3840 x 2160 pixels exciting filter module for 113 or more different waveband combinations between Less than 400 nm and 700 nm or more	Committee had recommended the suggestion
Camera filters	350-1100 nm, 350-380nm, 530/ 550/ 570/ 590/ 610/ 630/ 645/665/695/715/735/760/780/810/900/1000nm	14 Camera Filters or More	Committee has recommended to add "or 13 or more camera filter" to the existing specification
Stage Specifications	New motorized X/Y stage, movement 140x65 mm or 60x45 mm, 2 paperweights, dust cover, 4 open sides for large documents	New motorized X/Y stage, movement 140x65 mm or 60x45 mm or 70x48 mm, 2 paperweights, dust cover, 4 open sides for large documents	Committee has recommended to add "or better" to the existing specification
Mains voltage	Spare lamp set (2pc. each of every lamp type) with 10 Fuses	Spare lamp set (2pc. each of every lamp type & Excluding LED Modules) with 10 Fuses or as applicable	Committee has recommended the suggestion



MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

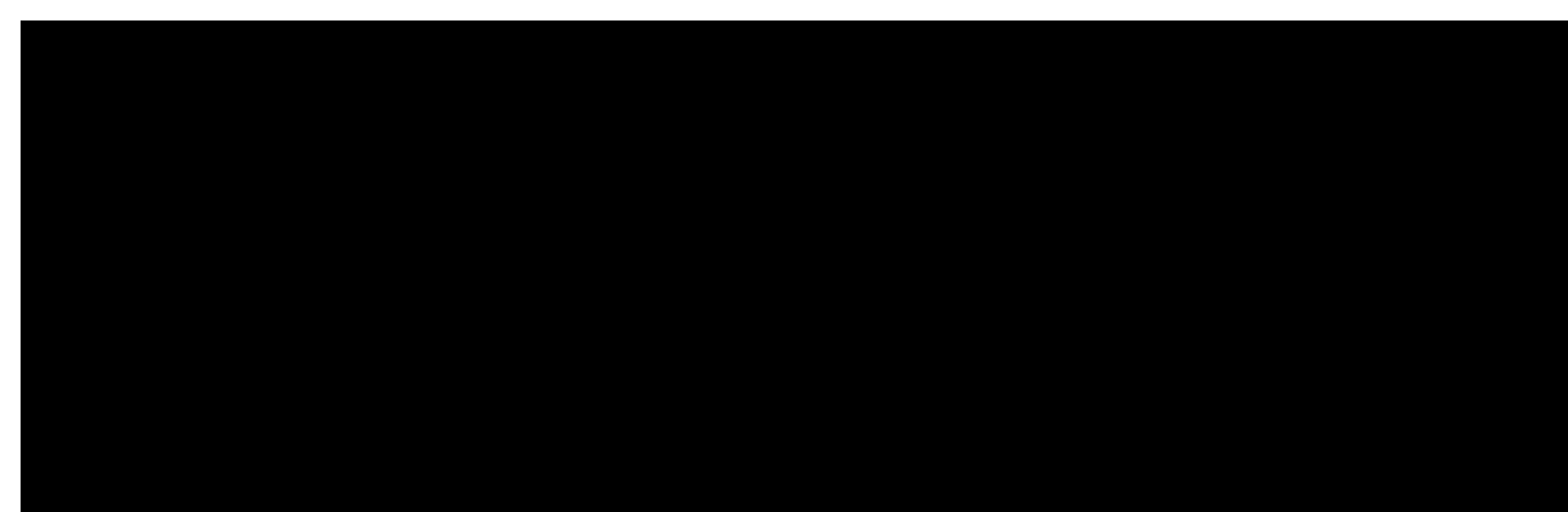
Basic Software	Extended depth of focus, multi-focus image, 3D Visualization	Extended depth of focus (OR) Multifocus image, 3D Visualization with 3D Acquisition	Committee has recommended to add "or better" to the existing specification
	Database management, 3D Acquisition, Spectrometer, Colour Measurement,	Database management, Spectrometer, Colour Measurement: capabilities (Lab* values), chromaticity charts, dominant wavelength, color purity, complementary color, RI%, XY zoom controls, intensity selection points, and Report Generation	Committee has not recommended
	USB Colour Spectroscopy module, for 2.4mm optical resolution, 360-1100nm or Integral grating spectrometer module, for 3 nm optical resolution, 400- 1000 nm	Integrated Micro-Spectrometer module, for 0.5nm to 2.5mm optical resolution, 350-1000nm	Committee has recommended to add "or better" to the existing specification
	Software module for Hyperspectral imaging	Software module for Hyperspectral imaging, It should provide spectra for any selected point instantly and capture image cubes in less time, with automated incremental steps of 1 nm to 50nm or more	Committee has recommended to keep the existing specification and add an option for an equivalent or better specification
	Illumination module for continuous interference filter, including continuous interference filter 400 - 1000 nm, including spare lamp	Illumination module for continuous interference filter, including continuous interference filter 400 - 1000 nm, including spare lamp (OR) An LED Based Hyper Spectral Imaging (HSI) module with a wavelength range of 400 nm to 1000 nm or more, in incremental steps of 1 nm to 99 nm,	Committee has recommended to keep the existing specification and include an option for equivalent or better specification



MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

		for precise ink examination and image integration.	
	Document Reader, White, UV-A 365 nm and IR illumination including RFID module and	The In-Built or Standalone Document Reader should feature White, UV-A 365 nm, and IR illumination, along with an RFID module or Smart Card Reader. The associated software must either be integrated with the Main System software or provided as a Standalone software solution for this device.	Committee has not recommended
	Smart Card Reader, software included		Committee has not recommended
	Macro scale 100 mm,0.5 mm division, with calibration certificate	(Optional)	Committee has not recommended
	NIST certified ruler 4 & quot; including certificate		Committee has not recommended
	NIST traceable calibration module (Validation Target Documents)	The system must include a calibration function that produces calibration certificates or reports using NISTtraceable wavelength calibration light sources and reference standards, including a White Reference Plate, Color Standards, and UV Color Standards as applicable. It should offer automated diagnostic checks and generate diagnostic reports that can be displayed on-screen or outputted in PDF format. Calibration must ensure accuracy and reliability for Questioned Document Examination (QDE) and comply with NABL standards.	Committee has not recommended



MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

	Reference reflectance for spectrometer UV365nm, UV313nm, UV 254nm, and anti-stokes	Reference reflectance for spectrometer UV365nm, UV313nm, UV 254nm, and anti-stokes along with other ink reference for Hologram, Photochromic, Iridescent, Metameric, IR Luminescent, Optical Variable Inks (OVI), Polarization Ink (with linear, clockwise, and anticlockwise polarization), Thermochromic, and Magnetic inks. These standards should cover a wide range of ink types to support thorough and diverse document analysis	Committee has recommended to add "or better" to the existing specification
Accessories	Computer System: Workstation i7, 64bit, WIN10 or WIN11, 1TB SSD HD, 16GB RAM, graphics card 4GB, USB keyboard, USB optical mouse, DVD writer. (The manufactured date should not be more than 6 months at the time of delivery)	In-Built or External Computer System: Workstation i7, 64bit, WIN10 or WIN11, 1TB SSD HD, 16GB RAM, Integrated or Dedicated graphics card, USB keyboard, USB optical mouse, DVD writer (Optional) (The manufactured date should not be more than 6 months at the time of delivery)	Committee has not recommended

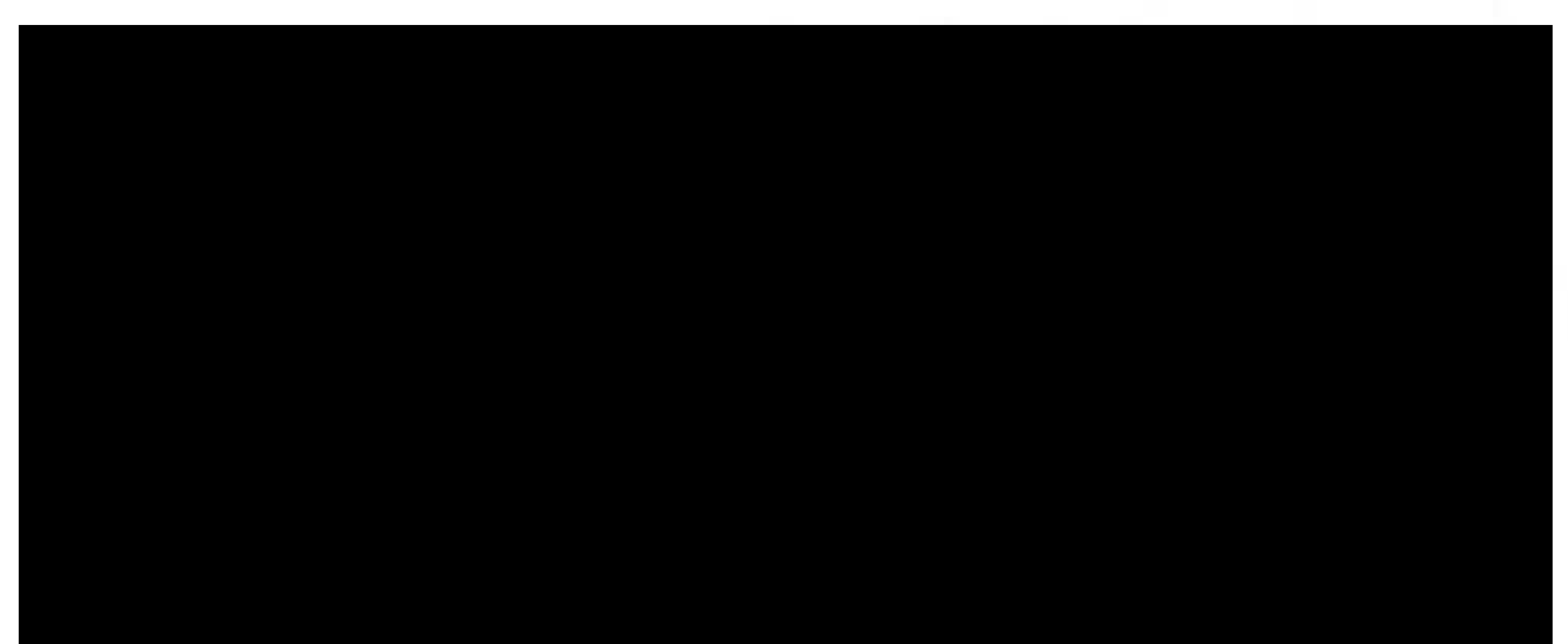
Kwick Soft Solutions

Parameter	Tender Specifications	Query/Clarification/Suggestion	Response
Monitor Options	10-megapixel colour camera or more	The specification, which is exclusive to a single OEM and thereby restricts fair competition, should be revised to require a minimum 2 MP camera with	Committee has not recommended

MEETING MINUTES FOR TENDER NO: GEM/2024/B/542717

For Item Category: Advanced Document Examination System

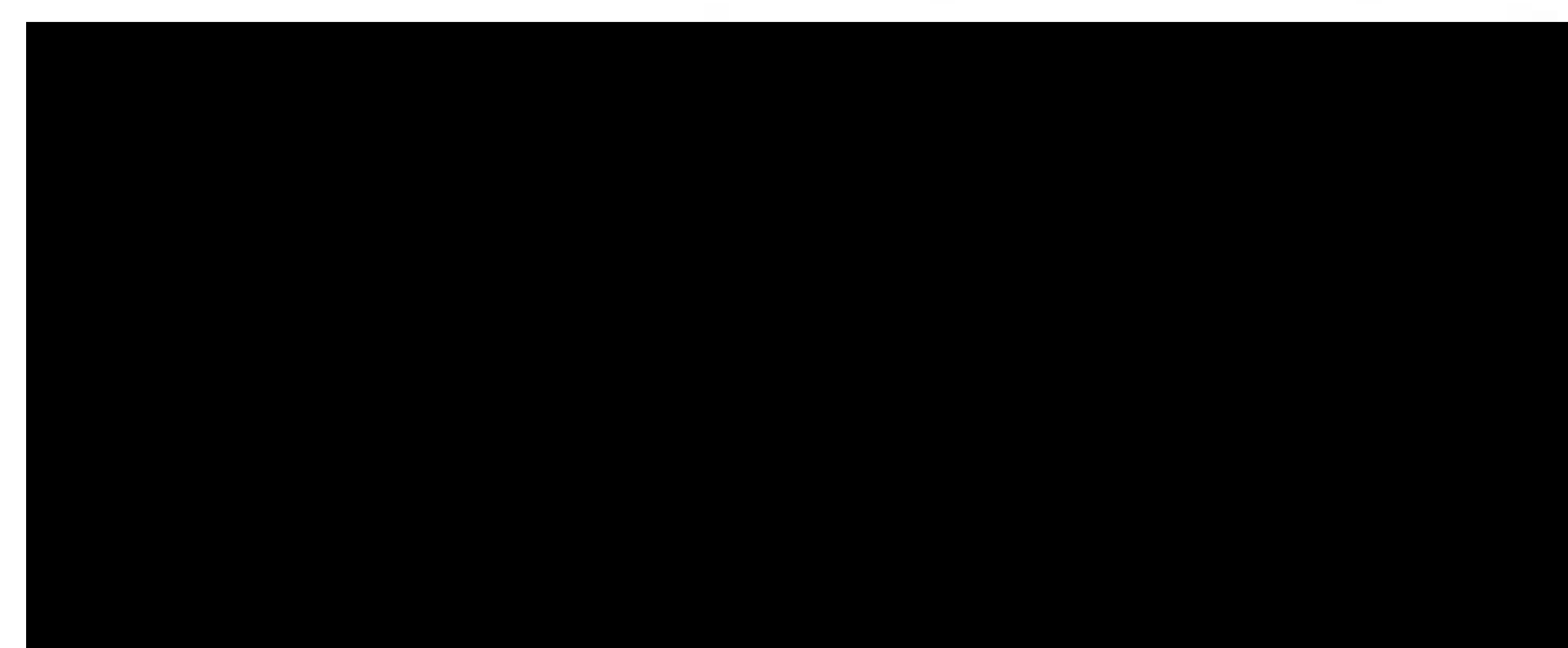
		live HD output, with the option to include a 5 MP external camera or higher	
Field of view	214 mm x 179 mm or more	The specification, being tailored to a particular Original Equipment Manufacturer (OEM), thereby restricting fair and open participation, should be amended to a minimum dimension of 214 mm x 148 mm ($\pm 10\%$) or greater.	Committee has recommended to keep the existing specification and allow a deviation of ($\pm 10\%$)
Camera filters	350-1100 nm, 350-380nm, 530/ 550/ 570/ 590/ 610/ 630/ 645/665/695/715/735/760/780/810/900/1000nm.	The requirement, being exclusive to a specific OEM and thus restricting equitable participation, should be revised to mandate a minimum of 13 camera filters	Committee has recommended to add "or 13 or more camera filter" to the existing specification
Stage Specifications	New motorized X/Y stage, movement 140x65 mm or 60x45 mm, 2 paperweights, dust cover, 4 open sides for large documents	The specification, currently limited to a particular OEM, thereby restricting fair and competitive participation, should be amended to include two paperweights, a dust cover, and four open sides to accommodate large documents	Committee has not recommended
Basic Software	USB Colour Spectroscopy module, for 2.4mm optical resolution, 360-1100nm or Integral grating spectrometer module, for 3 nm optical resolution, 400- 1000 nm	The specification, which is currently exclusive to a particular Original Equipment Manufacturer (OEM), should be revised to a minimum wavelength range of 400- 850nm with a resolution of 5nm in order to	Committee has recommended to add "or better" to the existing specification



MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

		ensure broader and more equitable participation	
	Software module for Hyperspectral imaging	The provision that restricts participation to a single Original Equipment Manufacturer (OEM) should be amended to specify a software module for hyperspectral imaging or high-intensity spotlight LEDs, incorporating 10 wavebands and offering 1,023 potential multiwaveband combinations, thereby ensuring broader and fairer participation	Committee has recommended to keep the existing specification and add an option for an equivalent or better specification
	Illumination module for continuous interference filter, including continuous interference filter 400 - 1000 nm, including spare lamp	Specific to a singular Original Equipment Manufacturer (OEM), which restricts equitable participation, the language should be amended to state: 'Illumination module for continuous interference filter, encompassing a continuous interference filter operating within the wavelength range of 400 to 1000 nm, inclusive of a spare lamp or high-intensity spotlight LEDs: comprising 10 wavebands and facilitating a total of 1023 potential multiwaveband combinations.	Committee has recommended to keep the existing specification and add an option for equivalent or better specification

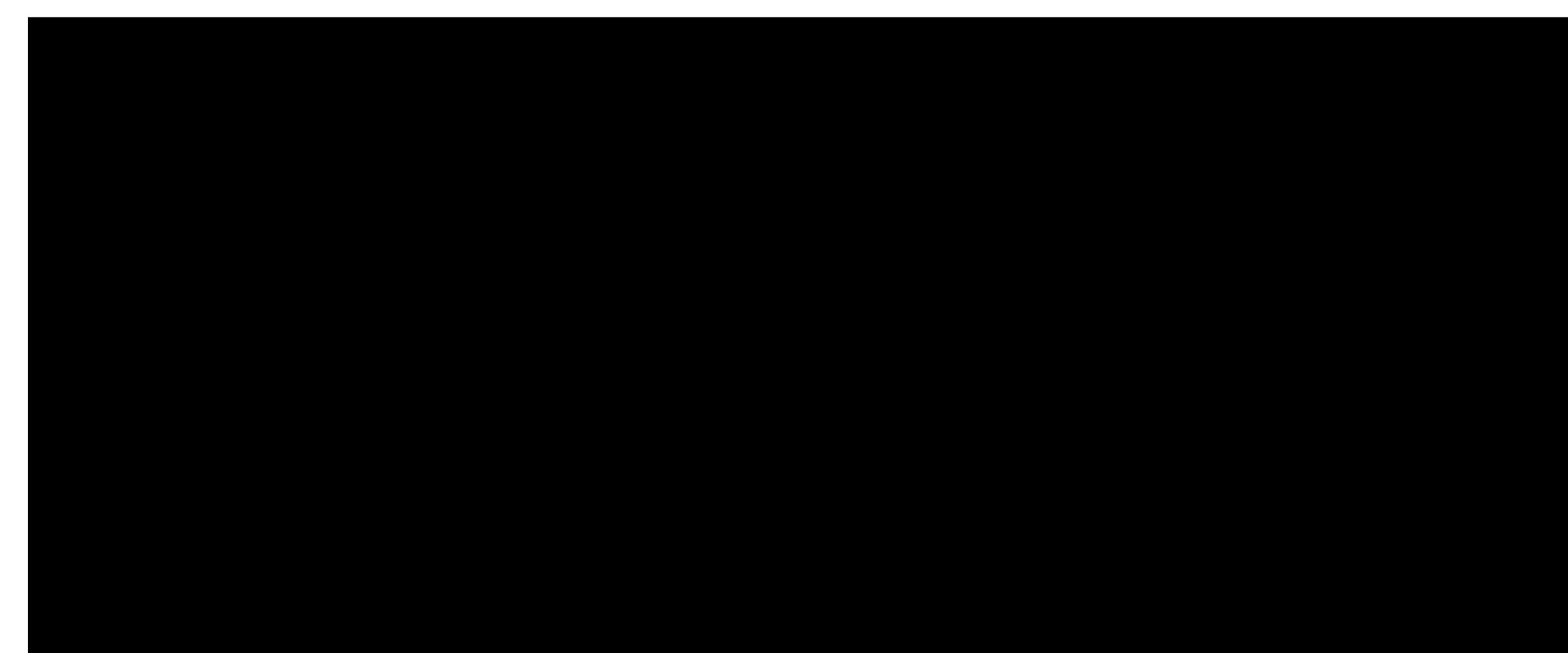


MEETING MINUTES FOR TENDER NO: GEM/2024/B/54271

For Item Category: Advanced Document Examination System

Perceptive Biotech

Parameter	Tender Specifications	Query/Clarification/Suggestion	Response
Monitor Options	10-megapixel colour camera or more	Specific to one particular OEM thereby limiting fair participation, it should be changed to min 2 Mp camera with live HD output, 5 Mp external camera optional or more	Committee has not recommended
Camera filters	350-1100 nm, 350-380nm, 530/ 550/ 570/ 590/ 610/ 630/ 645/665/695/715/735/760/780/810/900/1000nm.	Specific to one particular OEM thereby limiting fair participation. It should be changed to minimum 13 camera filters	Committee has recommended to add "or 13 or more camera filter" to the existing specification
Stage Specifications	New motorized X/Y stage, movement 140x65 mm or 60x45 mm, 2 paperweights, dust cover, 4 open sides for large documents	Specific to one particular OEM thereby limiting fair participation. It should be changed to 2 paper weights, dust cover, 4 open slides for large documents	Committee has not recommended
Basic Software	USB Colour Spectroscopy module, for 2.4mm optical resolution, 360-1100nm or Integral grating spectrometer module, for 3 nm optical resolution, 400- 1000 nm	Specific to one particular OEM thereby limiting fair participation. It should be changed to min. range of 400-850 nm with 5 nm resolution	Committee has recommended to add "or better" to the existing specification
	Software module for Hyperspectral imaging	Specific to one particular OEM thereby limiting fair participation. it should be changed to software module for hyperspectral imaging or high intensity spotlight LEDs: 10 wavebands, providing 1023 possible multi waveband combinations	Committee has recommended to keep the existing specification and add an option for equivalent or better specification



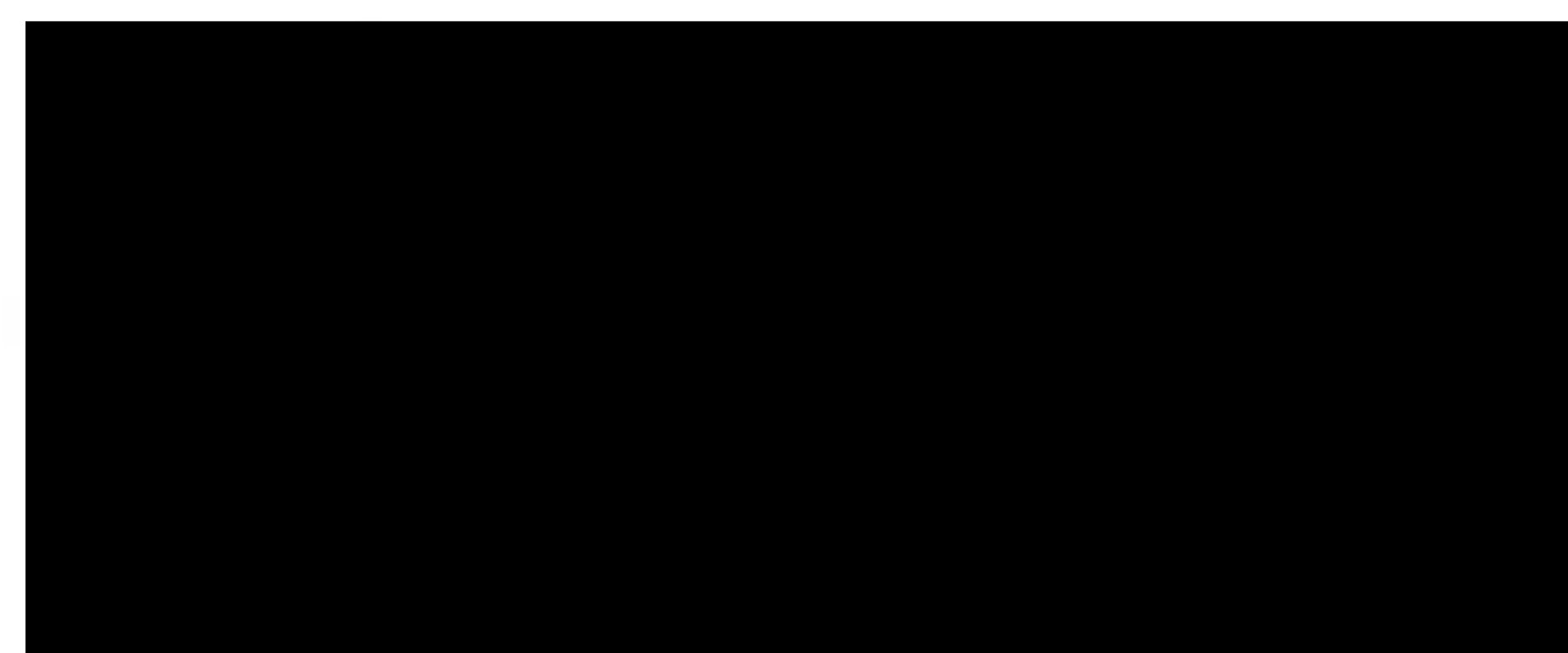
MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

	Illumination module for continuous interference filter, including continuous interference filter 400 - 1000 nm, including spare lamp	Specific to one particular OEM thereby limiting fair participation. It should be changed to illumination module for continuous interference filter, including continuous interference filter 400-1000 nm, including spare lamp or high intensity spotlight LEDs: 10 wavebands, providing 1023 possible multi waveband combination	Committee has recommended to keep the existing specification and add an option for equivalent or better specification
	Reference reflectance for spectrometer UV365nm, UV313nm, UV 254nm, and anti-stokes	Specific to one particular OEM thereby limiting fair participation. It should be changed to reference reflectance for spectrometer UV 365 nm, UV 313 nm, or UV312 nm, UV 254 nm and antistokes	Committee has recommended add "or better" to the existing specification

Geo Informatics Consultants Pvt. Ltd.

Parameter	Tender Specifications	Query/Clarification/Suggestion	Response
Basic Software	NIST certified ruler 4 & quot; including certificate	Remove this line "NIST certified ruler 4 & quot; including certificate"	Committee has not recommended
Delivery Period	30 days from date of purchase order	Please amend delivery period as 90 days from date of Purchase Order instead of 30 days	Committee has not recommended



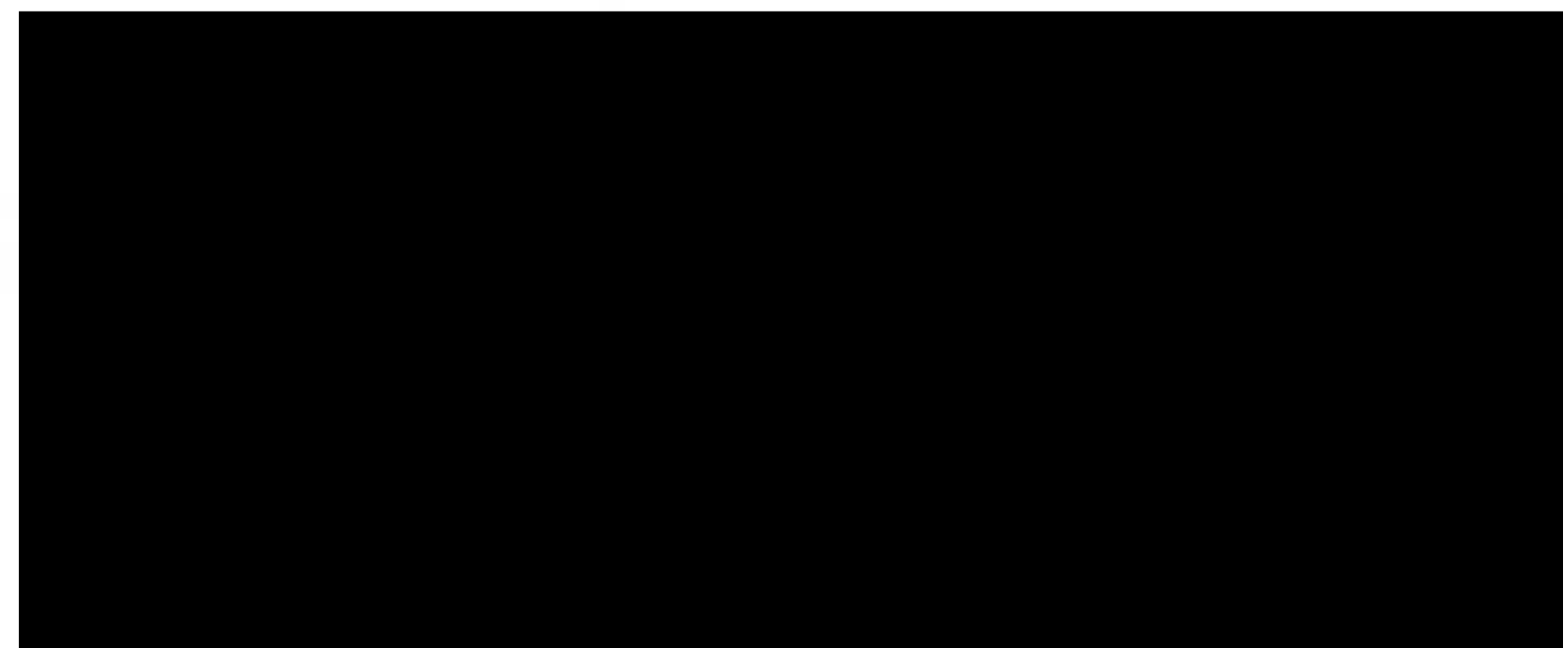
MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

Annexure II

Amended Specifications for Corrigendum of Advanced Document Examination System GeM Bid No. GEM/2024/B/5427174

Parameter	Tender Specifications	Amended Specifications
Field of view	214 mm x 179 mm or more	214 mm x 179 mm ($\pm 10\%$) or more
Magnification range	2.9x - 224x with monitor	2.9x - 224x with monitor or better
	3840 x 2160 pixels exciting filter module for 113 different waveband combinations between 380 nm and 800 nm	3840 x 2160 pixels exciting filter module for 113 different waveband combinations ≤ 400 nm and ≥ 700 or better
Camera filters	350-1100 nm, 350-380nm, 530/ 550/ 570/ 590/ 610/ 630/ 645/665/695/715/735/760/780/810/900/1000nm.	350-1100 nm, 350-380nm, 530/ 550/ 570/ 590/ 610/ 630/ 645/665/695/715/735/760/780/810/900/1000nm or 13 or more camera filter
Mains voltage	Spare lamp set (2pc. each of every lamp type) with 10 Fuses	Spare lamp set (2pc. each of every lamp type), Excluding LED Modules, with 10 Fuses or as applicable
Basic Software	Extended depth of focus, multi-focus image, 3D Visualization	Extended depth of focus, multi-focus image, 3D Visualization or better
	USB Colour Spectroscopy module, for 2.4mm optical resolution, 360-1100nm or Integral grating spectrometer module, for 3 nm optical resolution, 400-1000 nm	USB Colour Spectroscopy module, for 2.4mm optical resolution, 360-1100nm or Integral grating spectrometer module, for 3 nm optical resolution, 400- 1000 nm or better
	Software module for Hyperspectral imaging	Software module for hyperspectral imaging or high intensity spotlight LEDs: 10 wavebands, providing 1023 possible multi waveband combinations or better
	Illumination module for continuous interference filter, including continuous interference filter 400 - 1000 nm, including spare lamp	Illumination module for continuous interference filter, including continuous interference filter 400 - 1000 nm, including spare lamp, or an LED Based Hyper Spectral



MEETING MINUTES FOR TENDER NO: GEM/2024/B/5427174

For Item Category: Advanced Document Examination System

		Imaging (HSI) module with a wavelength range of 400 nm to 1000 nm or more
	Reference reflectance for spectrometer UV365nm, UV313nm, UV 254nm, and anti-stokes	Reference reflectance for spectrometer UV365nm, UV313nm, UV 254nm, and anti-stokes or better

