

23rd Nov 2022**ADDENDUM 01****Tender no.2022-23/06****GeM Bid No: GEM/2022/B/2720075 – (Micro – Raman Spectrometer)**

SI No.	Technical Parameter	Specification	Amendment
3	Spectral Range:	The spectrograph should allow spectral coverage from 80 cm ⁻¹ to 4000 cm ⁻¹ in one single continuous acquisition without any step and stitches maintaining 1cm ⁻¹ spectral resolution. Future upgradation at site for cut-off of Raman filter ~10 cm ⁻¹ for 532 nm laser	The spectrograph should allow spectral coverage from 50 cm ⁻¹ or better for 532 nm and 785 nm laser, and 250 cm ⁻¹ or better for 325 nm laser to 4000 cm ⁻¹ in one single continuous acquisition without any step and stitches maintaining 1 cm ⁻¹ spectral resolution for 532 nm and 785 nm laser.
6	Spatial resolution:	0.5 micron or better (lateral) and 0.1 micron or better (axial)	0.1 micron or better (lateral) and 0.2 micron or better (axial)
8	Gratings:	Two gratings 1200 gr/mm and 2400 gr/mm mounted on encoder feedback controlled grating stage and must be controlled by software. The gratings should be quickly and easily interchangeable without realignment.	Three gratings 600gr/mm, 1200 gr/mm and 2400 gr/mm or compatible gratings should be mounted on encoder feedback controlled grating stage and must be controlled by software. The gratings should be quickly and easily interchangeable without realignment.
11	UV:	325 nm suitable laser, 100 mW or better	325 nm suitable laser, 15 mW or better with suitable objective
13	NIR:	Air cooled, Diode Laser 785 nm, 300 mW or above with variable intensity	Air cooled, Diode Laser 785 nm, 100 mW or above with variable intensity
14	Filters	The filter set for each wavelength including laser line filter, edge filter, and notch filter should be provided	The filter set for each wavelength including laser line filter, edge filter or notch filter should be provided
15	Laser Power Control	Filter wheel 100%, 50%, 25%, 10%, 5%, 3%, 1%, 0.1%, 0.01%	Adjustable power control i.e 100%, 50%, 25%, 10%, 5%, 3%, 1%, 0.1%, 0.01%
16	Microscope	Microscope should be upright and directly coupled to the spectrometer	Microscope should be upright and directly coupled or fiber coupled to the spectrometer
18	Confocal optics:	True Confocal	Confocal Aperture: pinhole or Slit
21	Sample stage: scanning	XYZ motorized stage (75 mm x 50 mm x 25 mm or more) with 50 nm (or better) step size in XY & 10 nm (or better) in Z direction with Joystick as well as computer-controlled for 2D/3D Raman imaging measurements	XYZ motorized stage (50 mm x 50 mm x 25 mm or more) with 50 nm (or better) step size in XY & 10 nm (or better) in Z direction with Joystick as well as computer-controlled for 2D/3D Raman imaging measurements
26	Imaging speed:	1000 spectra/sec or better	500 spectra/sec or better

The Bidders are requested to quote accordingly.


Principal Director (T)

