

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Jadavpur, Kolkata –32

Corrigendum Notice

Ref: NIT No. IACS/CSS/AM/101, Dated: 23/12/2021

Please note the following additions/corrections:

Serial no.	Tender Item	Tender Description	Modified Tender Description
1	Gas Chromatograph	Gas Specification: ii. Pressure set points minimum increments: 0.01 kPa-0.001 psi in all ranges or better.	Gas Specification: ii. Pressure set points minimum increments: 0.1 kPa-0.001 psi in all ranges or better.
2	Gas Chromatograph	Gas Specification: vi. Modes: Constant and programmed pressure and flows with gas saver and septum purge.	Gas Specification: vi. Modes: Constant and programmed pressure and flows and Constant Linear Velocity with gas saver and septum purge.
3	Gas Chromatograph	Gas Specification: viii. Purge flow from 0 to 50mL/min or better.	Gas Specification: viii. Purge flow from 0 to 50mL/min or equivalent.
4	Inlet: 02 Nos.	i. Split /Splitless Injector with fully EPC with pressure range 0–100 psi or better.	i. Split /Splitless Injector with fully EPC/AFC with pressure range 0–100 psi or better.
5	Inlet: 02 Nos.	viii. Large-volume injection of up to 150 µL or more manually.	viii. PTV Large-volume injection of up to 150 µL or more manually with on column injection mode for low abundant analytes.
6	Flame Ionization Detector (FID): 01 No.	iv. Sensitivity: >0.03 Coulombs/gC or better.	iv. Sensitivity: >0.03 Coulombs/gC or equivalent.
7	Thermal Conductivity Detector (TCD): 01 No.	i. Thermal Conductivity Detector module: dual filament, single column detector with high performance in terms of sensitivity featuring acquisition rate as high as	i. Thermal Conductivity Detector module: dual filament, single column detector with high performance in terms of sensitivity featuring acquisition rate as high as

		300Hz; micro-volume Ni/Fe cell.	300Hz.
8	Thermal Conductivity Detector (TCD): 01 No.	ii. Unique fluidic switching design which provides rapid stabilization from turn-on, low-drift performance.	ii. Unique fluidic switching design or equivalent which provides rapid stabilization from turn-on, low-drift performance.
9	Thermal Conductivity Detector (TCD): 01 No.	iii. Minimum Detection Limit: <400pg tridecane/ml with He carrier or <20pg tridecane/s or equivalent with a total flow through the cell of 3ml/min or better.	iii. Minimum Detection Limit: <400pg tridecane/ml with He carrier or <20pg tridecane/s or equivalent with a total flow through the cell of 3ml/min or equivalent.
10	Mass Spectrometer Detector (Single Quadrupole): 01 no	ii. Mass Range: 1.5–1000 amu or better with unit mass resolution. Mass axis stability ± 0.1 amu/48 h or better	ii. Mass Range: 1.6–1000 amu or better with unit mass resolution. Mass axis stability ± 0.1 amu/48 h or better
11	Mass Spectrometer Detector (Single Quadrupole): 01 no	iv. Transfer Line Temperature: Settable from 20°C to 350 °C or better.	iv. Transfer Line Temperature: Settable from 50°C to 350 °C or better.
12	Mass Spectrometer Detector (Single Quadrupole): 01 no	vii. Mass Filter: Dual-stage mass filter with off-axis ion guide for noise reduction and solid, homogeneous non-coated quadrupole rods.	vii. Mass Filter: Dual-stage mass filter with off-axis ion guide for noise reduction and solid, homogeneous non-coated quadrupole rods or equivalent.
13	Mass Spectrometer Detector (Single Quadrupole): 01 no	ix. Detector: High-sensitivity electron multiplier electron multiplier and electrometer, linear from 0 to 68 μ A or better.	ix. Detector: High-sensitivity electron multiplier electron multiplier and electrometer, linear from 0 to 68 μ A or equivalent / better technology.
14	Mass Spectrometer Detector (Single Quadrupole): 01 no	x. Sensitivity: EI scan sensitivity 1000:1 or better by 1 μ L of 1 pg/ μ L octafluoronaphthalene (OFN) to produce minimum S/N for m/z 272 when scanning 50–300 amu or better.	x. Sensitivity: EI scan sensitivity 2000:1 or better by 1 μ L of 1 pg/ μ L octafluoronaphthalene (OFN) to produce minimum S/N for m/z 272 when scanning 50–300 amu or better.
15	Mass Spectrometer Detector (Single Quadrupole): 01 no	xi. Instrument Detection limit (IDL), calculated from the chromatographic peak area with 99% confidence interval: IDL ≤ 10	xi. Instrument Detection limit (IDL), calculated from the chromatographic peak area with 99% confidence interval: IDL ≤ 5 fg

		fg or better.	or better.
16	Mass Spectrometer Detector (Single Quadrupole): 01 no	xiv. Electronic dynamic range > 100 or better.	xiv. Electronic dynamic range > 10⁶ or better.
17	Mass Spectrometer Detector (Single Quadrupole): 01 no	xvi. Heated monolithic hyperbolic quadrupole with temp of up to 200 °C or better may be preferred.	xvi. Heated monolithic hyperbolic quadrupole with temp of up to 200 °C or equivalent/better technology .
18	Auto Injector/Sampler: 01 No.	iv. Maximum volume: 5 µL. Minimum volume: 0.01 µL. Increments: 0.01 µL steps.	iv. Maximum volume: 5 µL. Minimum volume: 0.1 µL . Increments: 0.1 µL steps.
19	Auto Injector/Sampler: 01 No.	vi. Screw Top 2 ml size autosampler vials with Cap & Septa: 1000 Nos or more.	vi. Screw Top 2 ml / 1.5 ml size autosampler vials with Cap & Septa: 1000 Nos or more.
20	Dual Detector Microfluidics	Dual Detector Microfluidics in order to keep the split ratio between two detectors (FID & MS) 1:1.	Dual Detector Microfluidics or equivalent technology in order to keep the split ratio between two detectors (FID & MS) 1:1.
21	Other Important Points.	vi. GC and all the major components such as MS, TCD, FID must be manufactured by the same company and have USA or Germany or United Kingdom or France or Switzerland or Italy as the country of origin.	vi. GC and all the major components such as MS, TCD, FID must be manufactured by the same company and have USA or Germany or United Kingdom or France or Switzerland or Italy or Japan or Singapore as the country of origin.

All other terms & Conditions shall remain unchanged in the above-mentioned NIT.

Acting Registrar