

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM [IISERTVM]

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Date: 21st September 2016

ADDENDUM TO TENDER NO

No: IISER/PUR/8226/16

Sub: Supply of GC-MASS-FID.

The above referred tenders specifications are hereby revised. The new Specifications are attached as **Annexure-I** to this Addendum

Also the due date for submitting quotation is extended to 20^{th} October 2016 [4PM].

Date of Opening Quotation is 21st October 2016[3PM].

Interested vendors may please submit 2 part tenders towards the revised specifications. Thosewho already submitted, may revise the quotes accordingly, if needed.

If the quote is revised, institute will open & Consider only the revised quote and the initially submitted offers will be sent back without opening.

Thanking You,

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Yours Faithfully

Deputy Registrar (I/C)
Purchase & Stores

SUDIN. B. BABU Deputy Registrar (i/c)

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GC-MS-FID

General

GC, Mass and FID should be manufactured, supplied and installed by a single vendor to provide a seamless integration between the GC, Mass and FID.

The vendor should have minimum of ten installations in India. At least 10 years spares support need to be provided.

The warranty period for the instrument (along with the supplied accessories) must start from the date of installation).

Along with the technical details provide a tabular column indicating whether the model of the equipment to be supplied by you meets the below mentioned specifications including the general by indicating "Yes" or "No". If "Yes" support the claim by providing original brochures or catalogs or published data.

Optional items should be quoted as individual optional items

Shipping, handling and any other shipping related charges should be quoted separately

Column Oven

Dimension: $\leq 28 \times 31 \times 18 \text{ cm}$

Temperature range: +4 °C to 450 °C or better

Temperature Ramps: 20 or higher Ramp rate: 120 °C/min or better

Column oven cooling speed: 4 minutes or less (from 450 °C to 50 °C)

Injectors: 1 No

Injector type: Split and Splitless facility

Split ratio: 1:7000 or better Pressure range: >100 psi

Total flow setting range: 200 mL/min or better for N₂, 1000 mL/min or better for H₂ or He

Detectors

Flame Ionization Detector(FID)- 1 No

Minimum detectable level: ≤ 1.5 pg C/s

Dynamic range: 10⁷ or better

Maximum operating temperature: 450 °C or higher

FID data rate: ≥ 250 Hz

MS Specifications

Mass Analyzer: Quadrupole

Ion source: EI

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Ion source temperature: 150 to 300 °C or better

Mass range: up-to 1024 amu or better Mass stability: 0.1 u/48 hours or better Scan speed: 20,000 u/sec or better

S/N: 1500:1 or better for 1 pg of OFN Instrument detection limit (IDL): \leq 10 fg

Pump: Turbomolecular pump

Measurement Mode: Scan, SIM

Software: software for acquisition and data analysis should be offered. Should be compatible with windows 7 or newer windows or any open source operating system.

Network Compatibility: Should have connectivity through LAN

Optional (should be quoted as an individual item)

Additional one injection port (Split and Splitless facility)

Additional one GC column

Additional one syringe

Auto injector

Auto Sampler (all possible variants)

Compatible computer and monitor

Gas cylinder, regulator, gas lines and drying agents

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