



राष्ट्रीय औषधीय शिक्षा तथा अनुसंधान संस्थान गुवाहाटी

NATIONAL INSTITUTE OF PHARMACEUTICAL

EDUCATION AND RESEARCH GUWAHATI

(Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt. of India)

Silakamur (Halugurisuk), P.O.: Changsari, Dist: Kamrup, Assam, Pin: 781101

No. NIPER-G/202/S&P/MS-MC/2021-22

Date: 07/03/2022

CORRIGENDUM

Subsequent to the pre-bid meeting held on 03/03/2022 in reference to the tender enquiry no. NIPER-G/202/S&P/MS-MC/2021-22 dated 25/02/2022, please note the following amendments:

Main component	Original Tender Specifications as per the tender dated on 25/02/2022	Amended Tender Specification as per the pre bid meeting dated on 03/03/2022
General	<ul style="list-style-type: none">The single quadruple MS also can work and analyze direct sample though suitable probe technology (direct mass).GCMS with original licensed windows-based software and Split-Splitless capillary inlet along with vials (40 or more) liquid auto sampler.GC must be capable to accommodate at least two detectors & two injectors in working conditions simultaneously.Gas Chromatograph with Electronic Flow control for Simultaneous Pressure, Temperature and Flow ProgrammingAll gases flow should be adjustable/controlled by software with no manual control.Auto shut down of instrument in case of leak detection in carrier gas.Should have Isolation mode to allow septum change without interrupting carrier flow.	<ul style="list-style-type: none">No changeNo changeNo changeNo changeNo changeNo changeEasy access to septum/column/source
Column Oven	<ul style="list-style-type: none">Capable of housing at least two columnsOperating temperature range: Upto 400 °C or more.Temperature Programming Ramps: 20 or more.Temperature setpoint resolution 0.1-degree °C or more.Purge flow from 0 to 50 mL/min or better.Typical peak area repeatability: <0.5 % RSD or betterProvision to install two or more columns, Retention time lock /adjustment facility preferable	<ul style="list-style-type: none">No changeNo changeNo changeNo changeNo changeNo changeNo change
Pneumatics	<ul style="list-style-type: none">System must have pneumatic Electronic Flow Control for all injectors & detectors.	<ul style="list-style-type: none">No change
Injector	<ul style="list-style-type: none">Split/split less inlet 1 nos and	<ul style="list-style-type: none">No change

	<ul style="list-style-type: none"> PTV/MMI 1 nos Temperature: 400 °C or more Fully EPC Split ratio: 6000: 1 or more Pressure setting range 0–100 psi PTV/MMI Large-volume injection of up to 150 µL or more manually with on column injection facility for low abundant analytes. Ramping rate 850 DEG/C min. for high volatiles. 	<ul style="list-style-type: none"> No change No change No change No change PTV/MMI Large-volume injection of up to 150 µL or more manually with injection facility for low abundant analytes. Ramping rate 850 DEG/C min. for high volatiles.
FID	<ul style="list-style-type: none"> Maximum operating temperature 425 °C or better MDL <3 pg carbon/s as tridecane or better Linear dynamic range >10⁷ or better Maximum data acquisition rate 300 Hz or better Full range digital data path enables peaks to be quantified over the entire 10⁷ concentration range in a single run. 	<ul style="list-style-type: none"> No change No change No change No change No change
Auto Injection facility	<ul style="list-style-type: none"> Injection range up to 100 ul. RSD of better than 0.3% RSD area reproducibility Vial capacity should be 15 or more. Upgradeable with Micro-volume: 5 µL Future Upgradeable with Nano-volume: 0.5 µ Cary over < 0.001% or better 	<ul style="list-style-type: none"> No change No change Vial capacity should be 40 or more. No change No change No change
Software	<ul style="list-style-type: none"> Original window-based software with license 	<ul style="list-style-type: none"> No change
Mass Spectrometer	<ul style="list-style-type: none"> EI source with maximum temperature of 300 °C or better. The user definable electron energy should be adjustable in the range from 0-150 eV or more 	<ul style="list-style-type: none"> No change No change
	<ul style="list-style-type: none"> Analyzer should have suitable inbuilt feature to keep it cleaner and better mass transfer efficiency will be preferred and supporting proof is required. Scan speed: 20000 u/s or better Mass Stability: 0.1 u/48 hours or better Mass Range: 2 –1000 u or more Resolution: Unit mass resolution maintained over the entire mass range Scan Rate: Fast quadrupole scanning up to 20,000 u/s or better. EI source should be inert to active compounds 	<ul style="list-style-type: none"> No change No change No change No change No change No change
Quadrupole	<ul style="list-style-type: none"> Suitable high end quadrupole with advance facilities will be preferred. 	<ul style="list-style-type: none"> No change
Mass Range	<ul style="list-style-type: none"> Up to 1000 amu or better 	<ul style="list-style-type: none"> No change
Scan Rate	<ul style="list-style-type: none"> Scan rate of 20000 amu/sec or better 	<ul style="list-style-type: none"> No change
Sensitivity	<ul style="list-style-type: none"> EI scan sensitivity 1500:1, by 1 micro 	<ul style="list-style-type: none"> No change

	liter injection of 1pg/ul OFN standard scanning from 50 to 300 amu at nominal 272 or better at performed on column.	
	<ul style="list-style-type: none"> System should have Electron multiplier detector with long life and better sensitivity. 	<ul style="list-style-type: none"> No change
IDL	<ul style="list-style-type: none"> 10 fg with injections of OFN should be performed on 30meter column 	<ul style="list-style-type: none"> No change
Turbo Molecular Pump	<ul style="list-style-type: none"> Single turbo molecular pump with capacity of 250L/sec or more. 	<ul style="list-style-type: none"> No change
	<ul style="list-style-type: none"> Should have software-controlled Auto tune or manual tune to enable quick start up for quantitative analysis. 	<ul style="list-style-type: none"> No change
Library	<ul style="list-style-type: none"> Latest NIST library with license version. 	<ul style="list-style-type: none"> No change
Columns	<ul style="list-style-type: none"> 30 m × 0.320 mm ID nonpolar capillary columns 60 m × 0.320 mm ID WAX capillary column 	<ul style="list-style-type: none"> No change No change
Consumables	<ul style="list-style-type: none"> Vials and Caps- 1000 each EI Filament-1 Ferrules- 100 Column nut- 10 Septa- 500 Autosampler syringe- 5 Vacuum pump Oil, FID jet, FID Nozzle, etc. should be provided for trouble Free 	<ul style="list-style-type: none"> No change No change No change No change No change No change No change Vacuum pump Oil, FID jet, FID Nozzle, required gas cylinders (quantities 2), regulator, and control panel, etc. should be provided along with the system
Computer	<ul style="list-style-type: none"> Suitable High-End factory fitted Compatible Computer workstation should come along with the instrument 	<ul style="list-style-type: none"> No change
UPS N2 Generator	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Suitable 10 KVA online UPS with an hour back up facility Technology used-PSA or equivalent technology Nitrogen Outlet Purity should be- 99.9% N2 and other inert Gases Max Flow should be up to 5 LPM Max Pressure should be 5 Kg/CM or 80 PSI/5.5 bar Particles size should be less than 0.01um Suitable Inbuilt/modular/external silent oil free air compressor to be supplied to support N2 generator. Suitable digital or equivalent display Supplier should quote the N2 generator to support charged aerosol detector in the existing HPLC system.

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		<ul style="list-style-type: none"> • Supplier should quote all essential accessories which are required to smooth functioning of the detector. • Supplier should quote 3 years' warranty for the N₂ Generator • Supplier should provide supporting documents for installation of N₂ Generator for CAD detector in the reputed govt. organizations.
Warranty	<ul style="list-style-type: none"> • System along with all supplied accessories should have three years of Comprehensive warranty. • Please, provide breakup cost towards warranty obligations for 2nd and 3rd years without fail. 	<ul style="list-style-type: none"> • No change
Delivery	<ul style="list-style-type: none"> • Vendors should quote final/complete cost to door delivery basis up to NIPER Guwahati. • Installation, demo of Instrument and all related expenses to supply instrument up to the Lab. has to be borne by the supplier. 	<ul style="list-style-type: none"> • No change • No change
Training	<ul style="list-style-type: none"> • Supplier should arrange application training by their personnel for minimum three working days after the installation of the system. 	<ul style="list-style-type: none"> • No change
General Instruction	<ul style="list-style-type: none"> • Users lists of similar equipment supplied in India should be provided (Enclose full list of the users in India). Vendor should have couple of users available in last 5 years in the eastern zone of India. A detailed technical compliance is required with supporting data where possible to show compliance. 	<ul style="list-style-type: none"> • No change

This for information of all the bidders.

Eraveer Ray 07.03.22
Stores & Purchase Officer

NIPER-GHY
भंडार एवं क्रय अधिकारी / Stores & Purchase Officer
नाइपर गुवाहाटी, असम (भारत) / NIPER Guwahati, Assam (India)