

Amendment No. 2**Date: 02/08/2019****Sub: Amendment to the Tender Enquiry Document.****Ref: Tender Enquiry No.: HITES/PCD/NIB-02/19-20 dated 17.06.2019.**

The following changes are being incorporated in the referred tender enquiry.

SECTION I
NOTICE INVITING TENDERS (NIT)**FOR:**

Sl. No.	Description	Schedule
b	Closing date & time for submission of tender fee and EMD in physical form	02.08.2019, 1400 Hrs. (IST) Bidders have to submit Original Bank Instruments viz. DD/BC/BG of tender fee and EMD within the above mentioned date and time
c	Closing date & time for submission of online bids	02.08.2019 at 1300 hrs. (IST)
d	Time, date of e-tender opening of online bids	02.08.2019, 1430 Hrs.(IST)

READ AS

Sl. No.	Description	Schedule
b	Closing date & time for submission of tender fee and EMD in physical form	17.08.2019, 1400 Hrs. (IST) Bidders have to submit Original Bank Instruments viz. DD/BC/BG of tender fee and EMD within the above mentioned date and time
c	Closing date & time for submission of online bids	17.08.2019 at 1300 hrs. (IST)
d	Time, date of e-tender opening of online bids	17.08.2019, 1430 Hrs.(IST)

Section – VII
Technical Specifications

Item no: 01 Rfx:3000004109 - Flow Cytometer			
Sl. No	Para. No	Tender Specification	Amended as
1	14. Documents	<ul style="list-style-type: none"> · IQ/OQ/PQ with all documents in original at NIB · Certificate of calibration and inspection from factory · 1 Tb hard drive · 16 GB RAM · Windows-7 64-bit OS (or higher version) · 3.4 GHz processor · DVD and USB drive ports 	<ul style="list-style-type: none"> · IQ/OQ/PQ with all documents in original at NIB · Certificate of calibration and inspection from factory · 1 Tb hard drive · 8 GB RAM · Windows-10, 64-bit OS (or higher version) · 3.4 GHz processor · DVD and USB drive ports

Item no.2 Rfx: 3000004110 - Atomic Absorption Spectrophotometer			
Sl. No	Para. No	Tender Specification	Amended as
1	2. General Specification	<p>3. Furnace Atomizer: the heating of the Graphite Atomizer should be through the walls of the tube, ensuring the uniform temperature distribution across the graphite tube. The furnace auto sample must be integrated to main spectrometer with a minimum of 100 sample positions and should have the auto-dilution capability. The system should be equipped with an integrated graphite furnace camera for easy auto-sampler tip alignment and real time viewing of the process. An imported self-priming water recirculating chiller unit of appropriate capacity for cooling of Graphite Furnace must be quoted by the manufacturer. The system should have at least 6 lamp holder with a provision of automatic lamp selection. Lamp selection alignments and operation current should be software controlled</p>	<p>3. Furnace Atomizer: the heating of the Graphite Atomizer should be through the walls of the tube or transverse to graphite tube, ensuring the uniform temperature distribution across the graphite tube. The furnace auto sample must be integrated to main spectrometer with a minimum of 100 sample positions and should have the auto-dilution capability. The system should be equipped with an integrated graphite furnace camera for easy auto-sampler tip alignment and real time viewing of the process. An imported self-priming water recirculating chiller unit of appropriate capacity for cooling of Graphite Furnace must be quoted by the manufacturer. The system should have at least 8 lamp holder with a provision of automatic lamp selection. Lamp selection alignments and operation current should be software controlled</p>

2	2. General Specification	6. Optical system: A true double beam spectrometer system with high light throughput. Monochromator system with a diffraction grating ruling density of at least 100 lines/mm blazed in both the UV and Visible regions. A focal length of minimum above 250 mm and Reciprocal Linear Dispersion of 1.6 nm/mm. variable slit width between 0.2 to 2.0 nm with automatic slit selection. System should have maximum light transmission for the best detection limits with least maintenance and with updated technology like fibre optics for the transmission of light. System should automatically adjust to changes in lamp intensity for stable baselines and compensates for drift multiple times per second. System should have the fast start-up and exceptional long term stability without recalibration.	6. Optical system: A true double beam spectrometer system with high light throughput. Monochromator system with a diffraction grating ruling density of at least 1200 lines/mm blazed in both the UV and Visible regions. A focal length of minimum above 250 mm and Reciprocal Linear Dispersion of 1.6 nm/mm. variable slit width between 0.2 to 2.0 nm with automatic slit selection. System should have maximum light transmission for the best detection limits with least maintenance and with updated technology for the transmission of light. System should automatically adjust to changes in lamp intensity for stable baselines and compensates for drift multiple times per second. System should have the fast start-up and exceptional long term stability without recalibration.
3	2. General Specification	7. Detector: Wide range Photomultiplier Tubes (PMT). Wavelength range 185 – 900nm.operator selectable read time for 0.1 to 120 second.	7. Detector: Wide range Photomultiplier Tubes (PMT). Wavelength range 185 – 900nm.operator selectable read time for 0.1 to 120 second or better
4	2. General Specification	11. Capable of printing complete results & graphs directly from the AAS.	11. Capable of printing complete results & graphs directly from the AAS through PC used for measurement

Item no: 03 Rfx:3000004111 - HPLC System			
Sl. No	Para. No	Tender Specification	Amended as
1	2	Solvent System & Pump (Quaternary Gradient): Maximum operating pressure: 8500 psi or more	Solvent System & Pump (Quaternary Gradient): Maximum operating pressure: 5000 psi or more
2	2	Solvent System & Pump (Quaternary Gradient): Dwell volume (Total system):≤1ml	Solvent System & Pump (Quaternary Gradient): Dwell volume / Delay volume :(Total system):≤1ml

3	2	Solvent System & Pump (Quaternary Gradient): The pump should have GLP features like maintenance feedback for continuous tracking of instrument usage with user settable limits and feedback messages	Solvent System & Pump (Quaternary Gradient): Deleted
4	3	Autosampler with Thermostat: Maximum operating pressure: 8500 psi or more	Autosampler with Thermostat: Deleted
5	3	Autosampler with Thermostat: Sample delivery precision : <0.25% RSD or better	Autosampler with Thermostat: Sample delivery precision : <0.5% RSD or better
6	3	Autosampler with Thermostat: Sample vial temperature control : Up to 40°C in 1°C increments	Autosampler with Thermostat: Sample vial temperature control : 4°C to 40°C in 1°C increments
7	4	Column Compartment: Temperature Range : Up to 80°C	Column Compartment: Temperature Range : 4°C to 60°C or more
8	4	Column Compartment: Temperature Accuracy : ± 0.5°C	Column Compartment: Temperature Accuracy : ± 1°C
9	5	PDA/DAD Detector: Diode Width/Resolution : <1.2nm	PDA/DAD Detector: Diode Width/Digital Resolution : ≤1.2nm
10	5	PDA/DAD Detector: Linearity : ≤ 5% at 2.5 AU	PDA/DAD Detector: Linearity : ≤ 5% at 2.0 AU
11	5	PDA/DAD Detector: Noise : ≤ ± 0.8 X 10⁻⁵ AU	PDA/DAD Detector: Noise : ≤ 10 X 10⁻⁶ AU
12	5	PDA/DAD Detector: Light source : D2 lamp & Tungsten Lamp	PDA/DAD Detector: Light source : D2 lamp and/ or Tungsten Lamp
13	5	PDA/DAD Detector: Flow cell volume : 1.0 µl or better	PDA/DAD Detector: Flow cell volume : < 10.0 µl or better
14	6	Software, PC and Printer: CFR Part 11 compliant software (Latest Compatible Software)	Software, PC and Printer: CFR Part 11 compliant software (Latest Compatible Software) with embedded oracle database, lamp optimization software, prefixed 11 gradient curves, complete audit trail and online custom calculation

Item no: 04 Rfx:3000004112 - UPLC			
Sl. No	Para. No	Tender Specification	Amended as
1	1	Description: The equipment is used for testing of purity parameters of recombinant products and to establish equivalence with current pharmacopeia methods.	Description: The equipment is used for testing of purity parameters of recombinant products and to establish equivalence with current pharmacopeia methods. Hence the quoted system should be biocompatible and capable to carry out different chromatographic experiments such as RP, HILIC, ion exchange and size exclusion chromatography without changing the basic structure and accessories.
2	2.6	Solvent System (Quaternary Gradient): Flow rate range : Upto 5.000 mL/min. in 0.001mL/min increment	Solvent System (Quaternary Gradient): Flow rate range : 0-2 mL/min. or better in 0.001mL/min increment
3	2.1	Solvent System (Quaternary Gradient): Maximum Operating Pressure: 15000-18000 psi at 0-2 mL/min	2.10 Solvent System (Quaternary Gradient): Maximum Operating Pressure: 15000 psi or better at 0-1 mL/min
4	3.1	Number of sample vials : upto 400	Number of sample vials : 90 or more
5	3.5	Sample Carryover : <0.010%	Sample Carryover : <0.005%
6	5.1	Wavelength Range : 190-700 nm	Wavelength Range : 190-600 nm
7	5.6	Light source : Deuterium and tungsten Arc lamp	Light source : Deuterium and/or Tungsten Arc lamp
8	5.9	Flow Cell Volume : 0.500uL to 14uL	Flow Cell Volume : 0.500uL or better
9	6.1	Software for Control, acquire and process data	Software for Control, acquire and process data CFR Part 11 compliant software (Latest compatible software) with embedded oracle database, lamp optimization software, prefixed 11 gradient curves, complete audit trail and online custom calculation
10	Added Para	Nil	Added Para: The following type and quantity of columns to be supplied with each unit: C18: 100 X 2.1X1.7 µm – 6 nos C4 : 150 X 4.6 X 3.5 µm – 1 no SEC: 300 x 4.6 x 4 µm – 1 no SEC: 300 X 7.8 X 10 µm – 1no ACQUITY UPLC BEH C18: 1.7 µm 2.1 X 100 mm Column – 6nos XBridge BEH300 C4 3.5 µm 4.6 x 150mm – 1no

			BioSuite 125, 4 µm UHR SEC 4.6 x 300mm col – 1 no BioSuite 450, 8 µm HR SEC 7.8 x 300mm col – 1 no
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All other contents of the tender enquiry including terms & conditions remain unaltered.

Note: Prospective Bidders are also advised to check the website regularly prior to the Closing date and time of online submission of bids