

Amendment No. 4

Date: 14/05/2019

Sub: Amendment to the Tender Enquiry Document.

Ref: Tender Enquiry No.: HLL/PCD/IPC-12/18-19 dated 26.02.2019.

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

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

SI No.	Description	Schedule
iii.	Closing date & time for submission of Tender Processing fee and EMD in physical form	15-May-2019,1400 hrs (IST)
iv	Closing date & time for submission of online tenders	15.05.2019 at 13:00 hrs (IST)
v	Time and date of opening of online tenders	15.05.2019 at 14:30 hrs (IST)

READ AS

SI No.	Description	Schedule
iii.	Closing date & time for submission of Tender Processing fee and EMD in physical form	28-May-2019,1400 hrs (IST)
iv	Closing date & time for submission of online tenders	28.05.2019 at 13:00 hrs (IST)
v	Time and date of opening of online tenders	28.05.2019 at 14:30 hrs (IST)

Schedule 1 LC-MS/MS (QQQ)		
Tender Page & Para	TENDER SPECIFICATION	Read As
Pg 54	Mass Range, amu: 5 -2000 amu	Mass Range, amu: 5 -2000 amu or better
Pg 54	0.05 Da over 12 hours	0.1Da over 12 hours
pg 54	Sensitivity MRM ESI Positive mode: 1pg/uL on column reserpine should give S /N greater than 90,000:1 based on 1uL injection volume MRM ESI Negative mode: 1pg/uL on column chloramphenicol should give S /N greater than 65,000:1 based on 1uL injection volume	Sensitivity MRM ESI Positive mode: 1pg/uL on column reserpine should give S /N greater than 80,000:1 based on 1uL injection volume MRM ESI Negative mode: 1pg/uL on column chloramphenicol should give S /N greater than 65,000:1 based on 1uL injection volume

	Added para	HPTLC interface for MS. Rapid and contamination free elution of TLC/ HPTLC zones with online transfer to MS, for guaranteed substances identification. Plug and play with most mass spectrometers. Elution into vials for further analysis e.g. NMR, IR and other MS techniques. Oval head for elution built-in. Circular head optional. Improved elution head and easily exchangeable filter before switch valve. Push button cleaning of elution path by compressed gas to prevent clogging. Laser for alignment of elution head and zone. Plate table with scale. Adjustable plate stopper. Suitable for glass and aluminum foil backed plates. 4 bar N ₂ required. Pump for Elution solvent required (50-300 µl / flow min.)
Schedule 2 GC-HS		
Para 3 Pg 56	Detectivity: 2 x 10 ⁻¹² gC/sec	Read As: Detectivity: 3x10 ⁻¹² gC/sec.
Schedule 4 High-Performance Liquid Chromatograph with Ultraviolet Detector HPLC Quaternary Gradient with UV-VIS Detector and Auto sampler		
Pg 61	Should have pressure operating range of 7500 psi or better	Pressure should have pressure operating range of 6500psi or better.
Pg 62	Temperature Stability: ±0.1°C of set temperature	Temperature stability ±0.5 deg C of set temperature
Pg 62	Temperature Operating Range: 10°C below ambient to 70°C	Temperature operating range 4 deg C to 40 deg C.
Schedule 5 High-Performance Liquid Chromatograph with PDA/DAD/RI/FLD		
8	Pump	
Pg 64	Pressure: Should have pressure operating range of 7500 psi or better	Pressure should have pressure operating range of 6500psi or better.
B	Fluorescence detector	
Pg 65	Temperature Operating Range: 5° C below ambient to 50 ° C	Temp. operating range: 4 deg C to 40 deg C
C	RI detector	
Pg 65	Noise Level: ± 1.5 x 10 ⁻⁹ RIU	Noise Level: ±2.5 X 10⁻⁹ RIU or better.
10	Thermostated column compartment with cooling facility	
Pg 66	Temperature Stability: ±0.1°C of set temperature	Temperature stability ±0.5 deg C of set temperature
11	Autosampler	
Pg 66	Temperature Operating Range: 10°C below ambient to 70°C	Sample cooler range: 4 deg C to 40 Deg C
Schedule 6: Dissolution Apparatus with Auto Sampler		
Pg 67	Menu driven software with on-line help	Menu driven software with Online/offline help
Pg 68	Syringe Pump - 06 With 8 Syringes (10 MI) & (25 MI) 4 Way Valve	08 syringes/ piston (10MI) & 25(MI) 4 way valve.
Pg 68	Station syringe sampler pump for 6 Channel.	Station syringe sampler for 8 channel.
Pg 68	4 way Rugged Valve system for Sampling, Replenishment & Dilution	Deleted

Pg 68	Max. online dilution possible 1:10	Deleted
Pg68	Individual Vessel Temperature Sensor, Indicator And Recorder With Printer Port (Set of 6).	Individual Vessel Temperature Sensor, Indicator And Recorder With Printer Port (Set of 8)
Schedule 8 Ultraviolet/ Visible Spectrophotometer		
Pg 71	BASE LINE FLATNESS - within ± 0.0003 Abs	BASELINE FLATNESS-within ± 0.0005 Abs.
Pg 71	Additional Spare - 1 PAIR QUARTZ CUVETTE (1-cm, 5 ml) - 1 No.	Additional spare:- 2 PAIR QUARTZ CUVETTE.
Schedule 9 FT-Infrared Spectrophotometer with Pellet Press		
Pg 72	Resolution: 0.1 cm ⁻¹ or better	Resolution: 0.5cm⁻¹ or better.
Pg 72	Libraries: BUILT IN LIBRARY WITH Minimum 2500 REFERENCE SPECTRA FOR DRUGS.	Deleted
Schedule 10 Karl Fischer Titrator (Semi-Micro Determination of Water)		
Para 1 Pg 73	Burette Drive resolution: 20,000 Steps	Burette Drive resolution: 10,000 Steps or better.
Para 2 Pg 73	Burette Resolver resolution : 0.0625% of burette volume	Deleted
Para 4 Pg73	Burette resolution (for 5 mL burette): 0.25 μ L	Burette resolution (for 5 mL burette): 0.25 μL or better.
Para 5 Pg 73	Polarized Measurement range : -2000...+2000 mV	Polarized Measurement range : -1200.....+1200 mV
Para 7 Pg 73	Polarization current range: 0...200 μ A	Polarization current range: 0...100 μA or better.
Schedule 11 Potentiometric Titrimeter		
Pg 74	mV range: ± 3200 mV	mV range: ± 1200 mV
Pg 74	System should have full control with inbuilt or external PC software	System should have full control with CFR 21 compliance software.
		Added Para
		The instrument should have facility to connect burettes with of volume 5, 10 & 20 ml .
Schedule 12 Pharma Refrigerator (2-8°C)		
Page 75	Capacity: 1000 litre or more	Capacity: 925 litre or more
Schedule 15 Melting- Point Apparatus		
		Added Para: Both capillary and slide option accepted
Schedule 17 Polarimeter with Multi Wavelength		
Pg 79	Measurement Accuracy: ± 0.02 deg	Deleted
Pg 79	Min Tube Length: 220 mm	Deleted
Schedule 21: Centrifuge (Table-Top Model, 4-Place Swing Rotor) with Temperature Control		
Page No. 82	Rotor and centrifuge tube of different capacity.	Rotor and centrifuge tube of different capacity of 10/25/50ml.

Schedule 23 Water Purification System		
Pg 83	The system should be table top model with on line TOC & LCD display facility, flow rate up to 1.5 L/min, Dual purification cartridges with organic absorbents, ion exchange resins and membrane processes to purify the water to 18.2 mega ohms, in order to satisfy ASTM TYPE 1, ISO 3696 and USP Specification, The system should have a pure water recirculation system to maintain consistent peak quality.	The system should be table top model Type-1 and Type -2 garede water with on line TOC & LCD display facility, flow rate up to 1.5 L/min, Dual purification cartridges with organic absorbents, ion exchange resins and membrane processes to purify the water to 18.2 mega ohms, in order to satisfy ASTM TYPE 1, ISO 3696 and USP Specification, The system should have a pure water recirculation system to maintain consistent peak quality.
Schedule 26 Digital Refractometer		
Pg 85	Accuracy: PR-H: ± 0.00002 nD; $\pm 0.02\%$ Brix PR-S: ± 0.0002 nD; $\pm 0.2\%$ Brix	RI accuracy: ± 0.0001 Brix accuracy : ± 0.05
Pg 85	Resolution: PRB-H: 0.00001 nD; 0.1%Brix PRB-S: 0.0001 nD; 0.1%Brix	RI accuracy: ± 0.00001 Brix accuracy : ± 0.01
Pg 85	Temperature Measurement: -10-99.9DegreeC	Temperature Measurement: -10-80.0 Degree C(inbuilt temperature)
Pg 85	Temperature Compensation: ICUMSA, Arbitrary	Deleted
Pg 85	Ambient Temperature: 0-40degree C	Deleted
Pg 85	Housing cast aluminium: Powder coated	Deleted
Pg 85	Interfaces: RS-232	Interfaces: USB,RS232
Pg 85	Analogue: 0/4-20mA	Deleted
Pg 85	Protection Class: IP65	Deleted
Pg 85	Display: LCD 120 X 32 Pixel	Display :LCD
Schedule 27 HPTLC with MS		
		Added Para
		HPTLC interface for MS. Rapid and contamination free elution of TLC/ HPTLC zones with online transfer to MS, for guaranteed substances identification. Plug and play with most mass spectrometers. Elution into vials for further analysis e.g. NMR, IR and other MS techniques. Oval head for elution built-in. Circular head optional. Improved elution head and easily exchangeable filter before switch valve. Push button cleaning of elution path by compressed gas to prevent clogging. Laser for alignment of elution head and zone. Plate table with scale. Adjustable plate stopper. Suitable for glass and aluminum foil backed plates. 4 bar N2 required. Pump for Elution solvent required (50-300 μ l / flow min.)

Schedule 30: GCMS-MS (QQQ) with HS		
Pg.No.92	Gas Chromatography Mass spectrometer GC should have temperature programmable vaporizer inlet and programmable up to 8 ramps and have heating rate better than 800°C/min.	Gas Chromatography Mass spectrometer GC should have temperature programmable vaporizer inlet and programmable up to 5 ramps and have heating rate better than 250 deg C/min.
Pg 93	The syringe must be heated and feature a gas line for purging with inert gas, when required	The autosampler must be able to transfer sample vapour to the injector with transfer line. The autosampler must permit adjustable and known sample volume to be introduced without requiring a change of sample loops.
Pg 93	The type and volume of the syringe must be automatically detected by the system.	Deleted
Schedule 32 Dissolution Apparatus		
Pg 96	Menu driven software with on-line help	Menu driven software with on-line/offline help.
Schedule 34: Liquid Particle Counter		
Page No. 97	Sensitivity range of particles: 1.5 to125 µm	sensitivity range of particles: 1.5 to 125 µm or better.
Page No. 98	Wetted Surface Materials : Glass, Teflon	Wetted Surface Materials : Glass, Teflon or suitable
Page No. 98	Maximum pressure : 25 psi	Maximum pressure : 25 psi/inbuilt sampling system.
Schedule 35: Air Particle Counter		
Page No. 99	Sensitivity range : 0.1 to 25.0 µm	Sensitivity range: 0.3 to 25 µm
Schedule 41: Deep Freezer (-70°C)		
Page No. 104	Alarm: It must also have on board SMART diagnostic software, Audio-visual Alarm for temperature variation	Alarm: It must also have on board diagnostic software, Audio-visual Alarm for temperature variation

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.