

Amendment No. 2**Date: 22/01/2016****Sub: Amendment to the Tender Enquiry Document****Ref: NIT No.: HLL/PCD/CDSCO-04/15-16 Dated 18.12.2015**

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

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

Sl. No.	Description	Schedule
c	Closing date & time for submission of tender fee and EMD in physical form	09.02.2016, 1200 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
d	Closing date & time for submission of online bids	08.02.2016, 1800 hrs IST
e	Time and date of opening of online bids	09.02.2016, 1400 hrs IST
f	Venue for :- Submission of tender fee, EMD in physical form, e-Tender opening, Price bid opening.	HLL Lifecare Limited, (A Government of India Enterprise), Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307

Section – VII**Technical Specification****Item No-2:****Fourier Transform Infra-Red Spectrophotometer (FT-IR)****1. Existing Specification:****Para 19.** A good number of Rechargeable Desiccant packs.**Read as:****Para 19.** 20 x10g of Rechargeable self-indicating Desiccant packs.

Item No-3:
DIGITAL MELTING POINT

1. **Existing Specification:**

Para 8. Method Storage: 20 methods or more.

Read as:

Para 8. Method Storage: 20 methods or Programmable.

Item No-7:
Muffle Furnace

1. **Existing Specification:**

Para 6. The temperature control must be via Microprocessor PID controller.

Read as:

Para 6. The temperature control must be via Microprocessor PID controller and PID Control via current limiting phase angle fired the resistor, E.G. SCR (Silicon Controlled rectifier).

2. **Existing Specification:**

Para 8. The heating of furnace must be via Iron chrome wire heater.

Read as:

Para 8. The heating of furnace must be via Iron chrome wire heater or fitted on both sides and uniform heating. KANTHAL A – 1 wire & on Top.

Item No-8:
Water Bath

1. **Added Para:** Over heat protection and liquid level alarm function.

Item No-9:
MAGNETIC STIRRER

1. **Existing Specification:**

Para: P/N (230v) 505-20000-00

Read as:

Deleted.

Item No-12: **Digital Refracrometer**

Existing Specification:

Measurement Range	1.3200nD – 1.5600nD 0-95% Brix
Accuracy	PR-H: ± 0.00002 nD; $\pm 0.02\%$ Brix PR-S: ± 0.0002 nD; $\pm 0.2\%$ Brix
Resolution	PRB-H: 0.00001nD; 0.1% Brix PRB-S: 0.0001nD; 0.1% Brix
Measurement Units	Refractive Index [nD] Saccharose [% Brix] Glucose [% Brix] Fructose [% Brix]
Measurement Interval	3-60s
Temperature Sensor	PT100
Temperature Measurement	-10-99.9DegreeC
Temperature Resolution	0.1degree C
Temperature Accuracy	± 0.2 degree C
Temperature Compensation	ICUMSA, Arbitrary
Ambient Temperature	0-40degree C
Illumination	LED 590nm (est. Life: >100,000h)
Housing	cast aluminium Powder coated
Interfaces	RS-232
Analogue	0/4-20mA
Protection Class	IP65
Working Voltage	24V
Display	LCD 120 X 32 Pixel

PRINTER

Suitable Laser Printer as per General Specification

DOCUMENTS AND TRAININGS:

- o IQ - OQ and PQ documents
- o On site Calibration with traceable reference material, to be done by the supplier on installation and there after every six months during warranty and CMC period.
- o On Site Training at the time of installation.

Read as:

The technical specification:

1. The refractometer should be digital with good quality optics.
2. RI measurement range: 1.30 to 1.56 or better.

3. Brix measurement range: 0 to 100%
4. Temperature control range: 10°C to 85°C.
5. Resolution (RI): 5 digits
6. Accuracy (RI): 4 digits
7. Light source: LED lamp
8. Data Interfaces: RS 232 port for printer connection, USB port.
9. Recording of data on system's internal memory.

PRINTER

Suitable Laser Printer as per General Specification

DOCUMENTS AND TRAININGS:

- o IQ - OQ and PQ documents
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Item No-13:
Water Purification System

1. Existing specification:

Type-II

Output : >7 Ltrs / Hr. @ 25 Deg C and Upgradable.

Read as:

Type-II

Output: 15 to 25 Ltrs/Hr

2. Existing specification:

Type-I

Dispensing flow Rate: Up to 2 Liters/Min

Read as:

Type-I

Dispensing flow Rate: 1 to 2 Liters/Min

Item No-14:
Gas Chromatograph with Head Space and Liquid Auto Sampler

1. Existing specification:

Para: Automatic leak check and column characterization facility.

Read as:

Deleted.

2. Existing specification:

HEAD SPACE (AUTOSAMPLER)

- Must allow housing of 8 or more sample vials of 10 or 20 ml capacity
- Must permit sequential injections on the same inlet for sample enrichment.
- Must feature dedicated turret for handling of proprietary gas tight syringe.
- The syringe must be heated and feature a gas line for purging with inert gas, when required.
- The type and volume of the syringe must be automatically detected by the system.
- Relative standard deviation 5% or less
- Must handle any Large Volume injection techniques. (PTV-LV, LV Split less, LV- On column).

Read as:

HEAD SPACE (AUTOSAMPLER)

- Must allow housing of 8 or more sample vials of 10 or 20 ml capacity.
- Relative standard deviation 5% or less.

3. Existing specification:

LIQUID AUTOSAMPLER

- Must be able to perform sequential injections in two inlets using different methods and injection modes, regardless the type of injector.

Read as:

LIQUID AUTOSAMPLER

- Must be able to perform **sequential injections or better in two inlets** using different methods and injection modes, regardless the type of injector.

Item No-15:
TABLET/CAPSULES DISINTEGRATION TESTER

1. **Existing specification:**

Para 9. LCD display (20X4 lines).

Read as:

Para 9. LCD display (20X2 lines) or better.

Item Sl.No-16:
Dissolution Rate test Apparatus with Auto Sampler (Tablet/Capsule)

1. **Existing specification:**

Para. 12 Programmable sampling intervals & 20 programmable protocols.

Read as:

Para. 10 Programmable sampling intervals & 15 programmable protocols.

2. **Existing specification:**

Para. Sturdy Motorized telescopic lift.

Read as:

Sturdy Motorized lift.

3. **Existing specification:**

Para. Magnetically coupled Water Circulating pump for precise temperature time control of water bath.

Read as:

Water Circulating pump for precise temperature time control of water bath.

4. **Existing specification:**

Syringe Pump - 06 With 8 Syringes (10 ml) & (25 ml) 4 Way Valve: Can adapt 10 ml & 25 ml syringe.

Read as:

Syringe Pump - 06 With 8 Syringes (12 mL or more P 4 Way Valve: Can adapt 12 ml or more syringe.

5. **Existing specification:**

Para. Max. Online dilution possible 1:10

Read as:

Deleted.

Item No-20:
Laboratory Centrifuge

Added Para: Supply complete with

Dust cover
Instruction manual
Spare fuses
Spare carbon set

Item Sl.No-23:
Vacuum Drying Oven

1. **Existing specification:**

Para 6. Additional Function Calendar Timer Function, Total Operation Hour Timer Function, Clock Display.

Read as:

Para 6. "Total Operation Hour Timer Function, Clock Display".

2. **Added Para:**

Safety Device Over temperature limiter switch prevents overheating.

Item Sl.No-29:
Karl Fisher Titrator

1. **Existing specification:**

Para 2. Burette Resolver resolution: 0.0625% of burette volume.

Read as:

Para 2. Burette Resolver resolution: **0.07% of burette volume or better.**

2. **Existing specification:**

Para 5. Polarized Measurement range: -2000...+2000 mV

Read as:

Para 5. Polarized Measurement range: - 1200 + 1200 mV

3. Existing specification:

Para 7. Polarization current range: 0...200 μ A

Read as:

Para 7. Polarization current range: 0...120 μ A or better

4. Existing specification:

Para 9. Drift measurement: Online, < 5 μ g/min

Read as:

Para 9. Drift measurement: Online, < 5 μ l/min

5. Existing specification:

Para 10. Measurement range: 10 ppm...100%

Read as:

Para 10. Measurement range: 100 ppm 100%.

6. Existing specification:

Para 14. Work at PC software, but Touch screen always shows the curves and measured values.

Read as:

Para 14. Work at PC software **and/or** Touch screen always shows the curves and measured values.

7. Existing specification:

Para 21. Fully integrated network software with MS-SQS data base management and controlled in standalone or network dual mode operation touch-screen or PC software.

Read as:

Para 21. Fully integrated network software management and controlled in standalone or network dual mode operation touch-screen **and** PC software.

Item Sl.No-30:
Auto Potentiometric Titrator

1. Existing specification:

Para 19: Fully integrated network software with MS-SQS data base management and controlled in standalone or network dual mode operation touch-screen and PC software.

Read as:

Fully integrated network software management and controlled in standalone or network dual mode operation touch-screen and PC software.

Item Sl.No-34:
Atomic Absorption Spectrometer (AAS)

1. Existing specification:

Para: SPECTRAL BANDWIDTH - 3 different types programmable through software using auto slit selection mode.

Read as:

Para: SPECTRAL BANDWIDTH - **Variable types** programmable through software using auto slit selection mode **from 0.1 - 2.0 nm.**

2. Existing specification:

Para: LAMP SETUP - LAMP SETUP-6 or more Lamps position Automatic Lamp Holder with computer controlled lamp selection its alignment and Automatic optimization of energy using coded lamps. Built in power supply 4 special Lamp to enhance sensitivity.

Read as:

Para: LAMP SETUP - LAMP SETUP-**8 or more Lamps** position Automatic Lamp Holder with computer controlled lamp selection its alignment and Automatic optimization of energy using coded lamps. Built in power supply 4 special Lamp to enhance sensitivity.

3. Existing specification:

Para: AS FLOW CONTROL - Total gas flow control system to maintain gas flows (Ratio of fuel/oxidant) at set levels even when subjected to outside variations like nebulizer adjustments. Automatic Gas Flow adjustment during change over between air C₂H₂ & N₂O.

Read as:

Para: AS FLOW CONTROL: **Total Computer Controlled gas flow system** to maintain gas flows (Ratio of fuel/oxidant) at set levels even when subjected to outside variations like

nebulizer adjustments. Automatic Gas Flow adjustment during change over between air C2H2 & N2O.

4. Existing specification:

Para: NEBULIZER TIP -Adjustable GEM TIP Nebulizer to take analysis with acids, corrosive samples including HF.

Read as:

Nebulizer tip made up of anti-corrosive material to take analysis with acids, corrosive samples including HF.

5. Existing specification:

Para: ACCESSORY ADJUSTMENT - Fully computer controlled spectrometer for all major accessories, Burner Heads, FIAS, Auto sampler etc under software control.

Read as:

Para: ACCESSORY ADJUSTMENT - Fully computer controlled spectrometer for all major accessories, Burner Heads, **FIAS / equivalent technique**, Auto sampler etc under software control.

6. Added Para:

Coded lamp

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