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Corrigendum-II

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for the Supply, Installation & Commissioning of Laboratory Instruments on Turn-key basis for Bihar Drug Control Laboratory, Agamkuan, Patna, Bihar was floated vide Notice Inviting Tender No.- BMSICL/2023-24/ME-306. During and after Pre-bid meeting various suggestions were received from different prospective bidders regarding amendment in technical specification of equipment which were discussed and deliberated on by the experts, who after due deliberation recommended certain amendments in the technical specification of the equipment, which are annexed as Annexure-I of this corrigendum. In order to facilitate maximum participation of bidders the tender schedule is being revised as follows:-

Tender Reference No.	BMSICL/2023-24/ME-306
Last date and time of submission of online bids	24 th May 2023 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document	5
Date, Time and Place of opening of Technical Bid	25 th May 2023 (at 15:00 Hrs.) on the website of https:/eproc2.bihar.gov.in in the office of BMSICL
Date and time of opening of financial Bids	To be announced later on https:/eproc2.bihar.gov.in

Note:-

- 1. Bidders are advised to refer to the Annexure-I of this corrigendum before submission of bid.
- 2. Those who have submitted their bids are requested to re-submit their bids in accordance with this corrigendum.

Annexed:- as above

Sd/-GM (Procurement) BMSICL

Annexure-I

SI. No.	Name of Equipment	Technical Specification Before Amendment	Technical Specification After Amendment
1	UV/VIS Spectrophotometer	1. Optics: High light throughput optical system with all reflecting optics	No Change
	Double Beam	2. Monochromatic: Czerny-Turner or equivalent	No Change
		3. Source: Deuterium and Tungsten halogen lamp OR Xenon Lamp with automatic change over	No Change
		4. Detector: Photo Multiplier Tube or Dual Silicon Photodiode	No Change
		5. Spectral bandwidth: variable from 0.5 to 4 nm	No Change
		6. Scan rate: Up to 6000 nm/min or better Stray light (%T): < 0.05 %T at 220 nm or better	No Change
		7. Wavelength range: 190- 1100 nm Wavelength accuracy: ± 0.2 nm	No Change
		8. Photometric stability: < 0.0005 Abs/Hour at 500 nm Photometric noise (Abs, RMS): < 0.0018 A	No Change
		9. Baseline flatness: ± 0.001 Abs	No Change
		10. System should be supplied with standard 10 mm cell holder	No Change
		11. Software should be based on Microsoft Windows and must have following features such as: Scan, wavelength programming, Validation, Concentration, GLP administration, Kinetics, System information.	No Change
		12. Software should be 21CFR 11 Compliant.	No Change
		13. 13 Five pair of quartz cuvettes of 10 mm path length.	13. Five pair of quartz cuvettes of 10 mm path length.
		14. Two pair of glass cuvettes of 10 mm path length	No Change
		 15. Extra accessories other than standard supply: a. Deuterium Lamp and Tungsten Lamp: 02 Nos. each or Xenon Lamp: 02 Nos. (as the case may be) b. Quartz cuvettes of 1 mm path length with cell holder: 01 pair. c. Quartz cuvettes of 2 mm path length with cell holder: 01 pair. 	No Change

6000 to 500 cm ⁻¹ 6. Source: Long Life IR Source7. Detector: MID-IR /DLTGS/DLATGS detector with temperature control mechanism8. Resolution: 0.6 cm-1 or better9. Signal to Noise Ratio 35000:1 Or better peakSignal to Noise			Upgrade- system must be able to upgrade all accessories in future for food applications like- peltier cell, praying mantis, sipper unit, autosampler, fiber optic module.	Upgrade- system must be able to upgrade all accessories in future for Drug applications like- peltier cell, praying mantis, sipper unit, autosampler, fiber optic module.
Wi-Fi ; Multimedia Keyboard ; Optical Mouse No Change Operating System – Preloaded Windows 10 Pro; Antivirus Printer- Laser Printer Monochrome with duplex printing and LAN port. UPS-2 KVA, Single phase with 60 minutes backup. No Change 17. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered. No Change 2 FT-IR Spectrophotometer with accessories 1. Fully computer controlled compact bench- top FTIR system with universal samplecompartment. Sample module must be automatically identified. No Change 2. The system should have latest digital signal processor. No Change 3. The system should indicate whether the source and laser are operational. No Change 4. The System should have feature for humidity and vapour protection. No Change 5. Wave number range: 6000 to 350 cm ⁻¹ Wave number range 6000 to 500 cm ⁻¹ 6. Source: Long Life IR Source No Change 7. Detector: MID-IR /DLTGS/DLATGS detector with temperature control mechanism No Change 8. Resolution: 0.6 cm-1 or better No Change 9. Signal to Noise Ratio 35000:1 Or better peak Signal to Noise			configuration are acceptable) Make: HP/Dell/IBM/Lenevo Processor - Intel i5 (5 th generation) ; RAM - 4 GB ; Hard disk - 1 TB ; Graphic Card; DVD	
2 FT-IR Spectrophotometer with accessories 1. Fully computer controlled compact bench- top FTIR system with universal samplecompartment. Sample module must be automatically identified. No Change 2. The system should have latest digital signal processor. No Change 3. The system should have latest digital signal processor. No Change 4. The System should have feature for humidity and vapour protection. No Change 5. Wave number range: 6000 to 350 cm ⁻¹ Wave number range 6000 to 500 cm ⁻¹ 6. Source: Long Life IR Source No Change 7. Detector: MID-IR /DLTGS/DLATGS detector with temperature control mechanism No Change 8. Resolution: 0.6 cm-1 or better No Change 9. Signal to Noise Ratio 35000:1 Or better peak Signal to Noise			Wi-Fi ; Multimedia Keyboard ; Optical Mouse Operating System – Preloaded Windows 10 Pro; Antivirus Printer- Laser Printer Monochrome with duplex	No Change
2 FT-IR Spectrophotometer with accessories 1. Fully computer controlled compact bench- top FTIR system with universal samplecompartment. Sample module must be automatically identified. No Change 2. The system should have latest digital signal processor. No Change 3. The system should indicate whether the source and laser are operational. No Change 4. The System should have feature for humidity and vapour protection. No Change 5. Wave number range: 6000 to 350 cm ⁻¹ Wave number range 6000 to 500 cm ⁻¹ 6. Source: Long Life IR Source No Change 7. Detector: MID-IR /DLTGS/DLATGS detector with temperature control mechanism No Change 8. Resolution: 0.6 cm-1 or better No Change 9. Signal to Noise Ratio 35000:1 Or better peak Signal to Noise			UPS-2 KVA, Single phase with 60 minutes	
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and vapour protection. No Change 5. Wave number range: 6000 to 350 cm ⁻¹ Wave number range 6000 to 500 cm ⁻¹ 6. Source: Long Life IR Source No Change 7. Detector: MID-IR /DLTGS/DLATGS detector with temperature control mechanism No Change 8. Resolution: 0.6 cm-1 or better No Change 9. Signal to Noise Ratio 35000:1 Or better peak Signal to Noise			3. The system should indicate whether the	No Change
5. Wave number range: 6000 to 350 cm ⁻¹ Wave number range 6000 to 500 cm ⁻¹ 6. Source: Long Life IR Source No Change 7. Detector: MID-IR /DLTGS/DLATGS detector with temperature control mechanism No Change 8. Resolution: 0.6 cm ⁻¹ or better No Change 9. Signal to Noise Ratio 35000:1 Or better peak Signal to Noise				No Change
7.Detector:MID-IR/DLTGS/DLATGS No Changedetector with temperature control mechanismNo Change8.Resolution:0.6 cm-1 or betterNo Change9.Signal to Noise Ratio 35000:1 Or better peakSignal to Noise				Wave number range: 6000 to 500 cm ⁻ 1
detector with temperature control mechanismNo Change8. Resolution: 0.6 cm-1 or betterNo Change9. Signal to Noise Ratio 35000:1 Or better peakSignal to Noise			6. Source: Long Life IR Source	No Change
9. Signal to Noise Ratio 35000:1 Or better peak Signal to Noise			detector with temperature control mechanism	<u> </u>
				· · · · · · · · · · · · · · · · · · ·
L			9. Signal to Noise Ratio 35000:1 Or better peak to peak for 1 min.	Signal to Noise Ratio 50000:1 Or better peak to peak

10. Wave number precision: 0.001 cm-1 or better at 2000 cm-1	No Change
11. Beam splitter: KBr coated with Ge/ZnSe/CaF2	No Change
12. The software should also have: -Compare Software, Spectral Search; Quantitative Analysis Software Spectral interpretation for unknowns; Quality checks programs and CFR-21 Part-11 Compliance should be available.	No Change
13. The software should have real time data collection and should have the facility to continuously monitor the performance of source, detector, power supply and laser.	No Change
14. Libraries: Built in Library with Minimum 30000 reference spectra for pharmaceutical products and drugs and other compounds	Libraries: Facility to create Library with Minimum 30000 reference spectra for pharmaceutical products and drugs and other compounds
15. Attenuated Total Reflection (ATR) -1 Nos. Diamond Monolithic	No Change
16. IR Grade KBr – 3x100 gm	No Change
17. Fixed Volume Liquid Cell and fixed thickness (0.5 mm) -1 Nos.	No Change
18. Sodium Chloride pellets with Holder for liquid paraffin mulls-1 No.	No Change
19. Hydraulic Press of suitable capacity	No Change
20. Set of 13mm KBr die, Pellet Holder and Nozzle oil should be supplied-2 Nos.	No Change
21. Inbuilt Polystyrene film of 0.3 mm having NIST Traceable certificates- 1 Nos.	No Change
22. Agate Mortar Pestle (Dia 2 inch) -2 Nos.	No Change
23. Computer Specifications: (Higher configuration are acceptable) Make: HP/Dell/IBM/Lenevo Processor - Intel i5 (5 th generation) ; RAM - 4 GB ; Hard disk - 1 TB ; Graphic Card; DVD	No Change
writer; 19 " TFT screen ; LAN Port ; USB Ports ; Wi-Fi ; Multimedia Keyboard ; Optical Mouse Operating System – Preloaded	

		Windows 10 Pro; Antivirus	
		Printer- Laser Printer Monochrome	
		with duplex printing and LAN port.	
		UPS-2 KVA, Single phase with 60 minutes	
		backup.	
		24. USFDA (510K) / European CE (Issued by	
		Notified Body) approved Model should be	
		offered.	
3	HPLC (Gradient)	HPLC system consisting of Quaternary Gradient	
	with UV Detector,	pump, Integrated Auto Injector,	
	Auto sampler	Online Degasser, Column Heater, UV Detector	
	& essential	along with software and Accessories Quaternary	
	columns	Gradient Pump:	
		Principle: Low Pressure Mixing - Serial Dual	
		Piston Automatic Gradiant Profile Facility 1.0 or higher	
		Automatic Gradient Profile Facility 1-9 or higher	
		Quaternary Pressure Gradient pump	
		Operating Flow Range: 0.001–10 mL/min or	
		better	
		Flow Accuracy: ± 0.1 %	
		Flow Precision: <0.1% RSD	
		Prop. Accuracy: ±0.5%	
		Precision: <0.3% SD	
		Pressure Range: 8500 psi or equivalent	No Change
		Pulsation: <2 bar or <1% whichever is	
		greater	
		Solvent Degassing: Built-in (Integrated), 4- channels	
		Error detection, Leak detection and safe leak	
		handling display feature should beavailable.	
		Delay volume variable 390ul-1500ul user	
		selectable.	
		The pulsation must be below 0.1% or 0.2 MPa	
		(whichever is greater)	
		The flow accuracy must be $\pm 0.1\%$ or better	
		The flow precision must be below 0.05% RSD or	
		0.01 min SD (whichever is greater)pH	
		compatibility 1-13 or better with salt	
		compatibility.	
		2. Autosampler:	
		Operating Principle: Inline Split Loop	
		Sample Capacity: 90 vails or more	No Change
		Injection Volume: 0.01–100 µL	-
		Injection Volume Accuracy: ± 1µl	

. –		
	Injection Volume Precision: < 0 1% of RSD	
	Injection Volume Linearity: > 0.9999 RSD <	
	0.5% at 5 – 90 μL	
	Sample Carry Over: Not more than 0.005 % from	
	previous injection	
,	Temperature Accuracy Sampler: ± 2°C	
	Pressure Range: 8500 psi or equivalent	
	Auto sampler should have auto dilution facility	
	in needle derivations facility.	
	3. Column Heater:	
· · · · · · · · · · · · · · · · · · ·	Temperature Control Range: 15° C to 80° C	
	Temperature accuracy: $\pm 0.5^{\circ} \text{ C}$	
	Colum heater should hold 3 columns of 30 cm	
	length.	No Change
	Colum switching valve should be supplied along	
	with the instrument for automated method	
	development.	
	4. Diode Array Detector:	
	The detector must typically provide a linear	
	range > 2.2 AU or more.	
	The wavelength range of the detector must range	
	from 190 to 800 nm with Additional Tungsten	
	Lamp available.	
	The drift of the detector must be below 1 mAU/h	
	at 254 nm.	
	Detector Noise must be $\leq \pm 8 \mu AU$ at 254 nm.	
	No of Photodiodes must be 1024 for better	
	spectral resolutions.	
,	The detector must provide a data collection rate	
	of up to 120 Hz with spectra acquisition.	
,	The detector must be able to record 8 channels	No Change
	plus 3D field simultaneously Standard analytical	
	flow cell should be of 10mm path length and	
	>10µL flow cell volume.	
	The detector must have an internal wavelength	
	calibration using the D-alpha line of the	
	deuterium lamp	
	Wavelength validation must be validated by a	
	holmium oxide filter	
	Basic instrument control of the detector can be	
	achieved by a keypad	
	The detector must provide a software-supported	
	predictive performance function for scheduling	
	maintenance procedures.	

The Detector must have built in safety features	
like Leak detection and safe leakhandling, excess	
pressure monitoring.	
Fluorescence Detector:	
Detector Operating Principle: Concave, blazed	
holographic grating monochromatorsor similar	
Lamp: Xenon Flash Lamp for exciting the	
compounds to fluorescence.	
Bandwidth: Excitation: 20 nm	
Emission: 20 nm	
Max. Data Collection Rate: Single wavelength:	
up to 100 Hz	No Change
Excitation Wavelength: 200 - 600 nm	C
Emission Wavelength Range 260 - 650 nm	
Wavelength Accuracy: ±2 nm	
Wavelength Precision: $\pm 0.2 \text{ nm}$	
Sensitivity Raman $S/N: > 550$ ASTM over the	
entire lifetime of the lamp	
Flow Cell Thermostatting: Ambient +10 °C to 50	
°C	
RI Detector:	
Refractive Index Detector should be having	
principle of deflection type along with Range of	
analyzing data from 1.00 to 1.75 RIU Range.	
Detector must have detection settings from $\frac{1}{4}$ to	
512μ RIU.	No Change
Detector noise must be ≤ 2.5 nRIU.	
Detector should have drift of \leq 500 nRUI/h	
It must have Temperature Control settings like	
OFF, 30 to 50°C	
Cell volume must be $< 10 \ \mu L$ with total volume.	
5. Software:	
Same software should be able to control all	
modules of HPLC system.	
To control, acquisition, online display, processing	
peak point integration and reporting HPLC data,	
Full 64 Bit Architecture software	
Software must be 21 CFR part 11 compliant	No Change
fulfilling all effective regulatory requirements.	C
Windows 10/8 environment or suitable	
Data reports, online help and wizards	
Data Integrity, Advanced Security, Audit Trials	
System suitability min 5 Parameter can be	
checked	
-incence	

Tomplete coving & Auto mu of templetes	
Template saving & Auto run of templates	
Calibration curves facility	
Facility for data security, audit trails and	
electronic signatures etc., should be available for	
GLP and 21 CFR compliance. 6. Columns (Pore Size 5 μ):	
(i)C-18 Column : 6 No. (Two of 250x4.6 mm)	
& amp; Four of 150 x 4.6 mm).	
(ii)C-8 Columns : Two of 250 x 4.6 mm	No Change
(iii)Phenyl Column : One of 250 x 4.6 mm	-
•	
(iv)CN Column : One of 250 x 4.6 mm	
7. Accessories:	
1. (A) Vials : 1 ml pack of 100 vials & amp; 2 ml	
pack of 100 vials (One Each)	
(B) Low insert vials (for low volumes) : A pack	
of 100 vials	
2. Filtration Assembly consisting of	
(A) Sample Filtration Kit – One Nos.	
(B) Membranes [Type: Dual (Aqueous & amp;	
Organic solvents)]	
Size 13 mm diameter with Pore size 0.45 μ – 10	
Pkt of 100 membranes	
Size 47 mm of 0.45 µ Pore size ; Qty- 10 pkt of	No Change
100 membranes	
(C) Pre-filters – 10 pkt of 100 circles	
(D) Solvent filtration kit –One No	
(E) Imported Oil Free Vacuum pump – One No.	
(F) Nylon Syringe filters (13 mm ; 0.45 μ) – 2	
Box of 100 filters.	
3. Deuterium or suitable Lamp- One No.	
4. HPLC Grade solvents of reputed brand	
(A) Methanol $-10 \ge 2.5$ Lit.	
(B) Acetonitrile- 10 x 2.5 Lit	
(C) Water- 10 x 2.5 Lit.	
8. Suitable PC & Printer with 3 KVA UPS of 60	
min. Back up of reputed brands specification as	
under:	
Processor - Intel i7 Latest generation; RAM - 8	No Change
GB ; Hard disk - 1 TB ; Graphic	no change
Card; DVD writer; 21" TFT screen ; LAN Port ;	
USB 2.0 Ports (4 Nos.) ; Wi-Fi ;	
Multimedia Keyboard ; Optical Mouse	

		Operating System - Windows 10/8 64 Bit	
		architecture	
		Printer- Laser Printer Monochrome with duplex printing and LAN port.	
		9.USFDA (510K) / European CE (Issued by	No Change
		Notified Body) approved Model should be	No change
		offered.	
4	GLC with FID	1. Microprocessor based Automatic Gas	
	Detector with	Chromatography system with Capillary Injector,	
	Head space	Flame Ionization Detector and automatic head	
		space Main Instrument:	
		Gas chromatograph Basic Unit with LCD &	
		Keypad	No Change
		Capillary Injector with Automatic Electronic Gas	
		Controller	
		Detector FID with Automatic Electronic Gas	
		Controller	
		Automatic Head Space with valve	
		2. Column Oven	
		Column Oven Size should be 10 ltrs or more	
		Operating Temperature range: Ambient +5 °C to	
		450 °C or better	
		Temperature Set Point Resolution: 1 °C	No Change
		Number of Ramps/Plateaus: 7/8 or more	
		Maximum Heating Rate: 50 °C/min or more	
		Oven Cool-Down: 400 °C to 50 °C in < 6 min or	
		better	
		3. Typical Retention Time Repeatability: 0.008 min or better	No Charge
		Typical Peak Area Repeatability: < 2% RSD or	No Change
		better	
		4. Capillary Column Injector with Automatic Gas Controller	
		Suitable for all (0.1 mm to 0.53 mm i.d.)	
		capillary columns	
		Temperature Range: 50° C - 450 °C	
		Pressure Range: 0–140 psi or more	
		Constant Pressure, Constant Flow and	N. Change
		Programmed Pressure	No Change
		Carrier Flow Setting: 0.1 ml/min to 100 ml/min	
		or better	
		Split Flow Setting: 1 ml/min to 400 ml/min or	
		better	
		Modes: Split and Splitless	
		Purge Flow Setting: 0 to 50 ml/min or better	

Split Ratio: Up to 7500:1 or better	
5. Flame Ionization Detector with Automatic Electronic Gas Controller which should be compatible with 1/4" & 1/8", 1/16" and capillary	
columns Flameout detection	No Change
Minimum detection limit : < 3 pg C/Sec for C9 hydrocarbon or better Linear Dynamic Range: 10 to power7 or better	
Maximum Temperature: 450 ° C or more6. Automatic Headspace Sampler	
Valve, Loop & amp; Transfer-line based Automatic Headspace with Electronic Flow/Pressure Control system. The unit should be equipped with a 120 vial	
sample tray or more Standard 20-mL vials with crimped cap & Septa for analysis of samples Incubation oven with 12-vial capacity or more and vial shaking comphility	
and vial shaking capability Sample overlapping with constant incubation time High temperature oven, valve, and transfer line Inert sample flow path	No Change
MHE with up to ten successive samplings from each vial Crimper & amp; decapper should be supplied	
along with system Typical area repeatability <0.8% RSD or better Vial size to use 10 mL, 20 mL and 22 mL headspace vials with:	
Magnetic crimp or screw caps; flat or rounded bottom without any need of Vial adapter Dimensions, including septum and cap Oven capacity: Air ventilated oven with 24-seat	
electrically-driven carousel7. Suitable Columns for analysis –5% Phenyl Methyl polysiloxane Capillary	
column or equivalent :- Qty 1 Polyethylene Glycol (PEG)/Wax capillary column or equivalent :- Qty 1	No Change
8. Licensed Chromatography Management Software 64 bit or suitable with 21 CFR Part 11 (Compliance) with running capability in windows. The system should be completely	No Change

1	1	control from computer	1
		control from computer	
		9. All necessary consumables & spares like all	
		Gases cylinders with regulators, Tubing,	
		Nut & amp; ferrule, Gas Purification panel for all	
		gases to install this equipment should be quoted	
		UHP Grade Nitrogen Gas with Double Stage SS	
		Diaphragm Regulator – Qty 1	N. Change
		UHP Grade Hydrogen Gas with Double Stage SS	No Change
		Diaphragm Regulator – Qty 1	
		UHP Grade Zero Air Gas with Double Stage SS	
		Diaphragm Regulator – Qty 1	
		Gas Purification Panel for all gases	
		Startup/Installation Kit as required.	
		10. Computer Specifications: (Higher	
		configuration are acceptable)	
		Make : HP/Dell/IBM/Lenevo	
		Processor - Intel i5 (5 th generation) ; RAM - 4	
		GB ; Hard disk - 1 TB ; Graphic Card;	
		DVD writer; 21" TFT screen ; LAN Port ; USB	
		Ports ; Wi-Fi ; Multimedia Keyboard	
		Optical Mouse	No Change
		Operating System – Preloaded Windows 10 Pro;	
		Antivirus	
		Printer- Laser Printer Colour with duplex	
		printing and LAN port.	
		UPS-5 KVA, Single phase with 60 minutes	
		backup	
		11. USFDA (510K) / European CE (Issued by	
		Notified Body) approved Model should be	No Change
		offered.	
5	Atomic Absorption	1. General: Optical Double-Beam system with	
2	Spectrophotometer		
	(AAS) with		4
	Hydride and	avoid any mechanical movement	
	graphite	of the set up while changing from flame to	No Change
		furnace mode (Including Auto sampler	
		of GF) (Simultaneously)	
		Future Ready Graphite furnace upgradation.	
		2. Optics:	
		Wavelength range: 185 to 900nm or better	No Change
		Variable band width: 0.2 to 1.0 nm spectral	Variable band width:
		bandwidths or better	0.1 to 2.0 nm
		Monochromator: Monochromator and prism or	0.1 to 2.0 mm
		Grating with 18001ines/mm blazed	No Change
		at 240nm or so with Reciprocal linear dispersion:	
	1	at 2+01111 of so with recipiocal initial dispersion.	J

	1.6 nm/mm or better	
	Sensitivity: Minimum absorbance of >0.9Abs	
	For 5ppm Cu (Copper)	
	Reciprocal Linear Dispersion 0.5 nm/mm at 200	
	nm Encertrel handmass of 0,1,0,2,0,5 or 1,0, nm	
	Spectral bandpass of 0.1, 0.2, 0.5 or 1.0 nm	
	should be automatically selectable	
	No. Of lamps mount: Minimum 6 or more	
	Background Correction: High intensity D2 for	
	Tame as well as Zeeman with	
	Graphite Furnace back ground correction	
	Burner height: Automatic optimization of burner height	
	Fuel Flow: Automatic optimization of fuel flow	
	Detector: PMT [Photomultiplier tube] OR Solid	
	State Detector (CMOS)	
	Fitanium or inert Burner or better.	
Т	The burner height is to be automatically optimize	
	3. Other Features:	
	Flame ignition-Automatic.	
	Nebulizer chamber- An inert fluoroplastic spray	
	chamber or equivalent.	
	Automatic gas control system.	
	Safety measures: Software controlled, automatic oxidant changeover. Software controlled,	No Change
	oxidant changeover. Software controlled, automatic fuel gas boost on oxidant changeover.	8-
	Automatic flame shut down. Fuel line flashback	
	arrestor etc.	
	Suitable air compressor should be there Graphite	
	Furnace Atomization	
	Integrated Zeeman background correction.	
	Monochromator: Echelle type	Monochromator:
	inonitation Lenene type	Echelle type/Czer ny
		type
		J F -
S	Suitable Air Compressor to be supplied of	
	Internationally Reputed Brand	
	Single Elements for : Fe, As. Pb, Cr, Cd, Zn, Hg,	
	Sn& Cu & all coded hollow cathode	
	amps to carry a 5000 mA/hr lifetime guarantee	$\mathbf{N}_{\mathbf{r}}$
	or better	No Change
(Continuous Flow /Flow injection/Automated	
	nydride Vapour Generator for analysis of As, Se,	
	Hg etc. It should come with an integrated	
	controller & amp; four channel peristaltic pump.	

Suitable Branded Desktop Computer with original software loaded. AAS software for automatic analysis, parameter setting, concentration computation, baseline correction, report generation. QA/AC data logging, etc 4. Automated hydride generator:	
Continuous Flow /Flow injection/Automated hydride Vapour Generator for analysis of As, Se, Hg, Pb etc. It should come with an integrated controller	No Change
 & four channel peristaltic pump. 5. Local Supplies: Suitable compatible branded desktop computer with latest configuration (i5 or better with ≥21" Monitor, UPS) and licensed software (OS, Office, antivirus etc.) along with compatible laser jet printer. Laser let (A 4 size) Printer 	
Laser Jet (A-4 size) PrinterAcetylene Filled Cylinder for AAS analysis (UHP Grade) filled with gases, with necessary Tubing & Connectors -2 No.Nitrous Oxide Filled Gas Cylinder for AAS application filled with gases, with necessary Tubing & Connectors2No.Argon Filled Cylinder for AAS analysis (UHP Grade) filled with gases, with necessary Tubing	
& Connectors2No. Double Stage Gas Regulators for Acetylene Gas Cylinder -1 No. Double Stage Gas Regulators for Argon Gas Cylinder -1 No. Double Stage Gas Regulators for Nitrous Oxide with heater -1 No Stainless Steel Double Mood with Exhaust fan	No Change
Statiliess Steer Double Wood with Exhaust failincluding necessary fitting and Ducting Facility -1 set.Gas Distribution Line for ArCertified Standard solution for AAS (1000 PPM)(each bottle of 100 ml.) for Fe, As,Pb, Cr, Cd.Zn, Hg, Sn& Cu -1 SetCylinders may require to be kept in a separateroom form the instrument. The supplier shouldcarry out all the necessary pipe fittings to	
properly run the instrument at their end following standard safety protocols. Warranty for this will	

		run concurrently with the instruments and costs will be included in the main offer.	
		The equipment should be provided with all necessary accessories and spare parts to run without hindrance. The system should be suited to Indian system of electrical inputs (230V/ 50Hz). To be supplied with Branded 5KVa UPS with 30 minutes power backup. Warranty of all items will strictly be applicable	
		from the date of installation for the entire installation. Warranty of minimum 4 years must be provided.	
		The bidder should quote for only that equipment for which hardware, software and spare parts support will be available in next minimum 7 years.	
6	Potentiometric	There should be minimum 5 installations of the instrument in Indian Public Sector or CGIAR research institutes. The list should be provided.1. Microprocessor controlled titration unit	
0	Titrator with	-	
	necessary	comprise the following:	
	electrodes	10 ml and 20 ml burette with tubing, connector &	
		Teflon coated valve: 2 Nos each	
		Temperature sensor, Moisture filter	
		Glass dispensing tip 150 ml. Glass beaker 4 Nos.	
		Stand for mounting all above items	
		Electrode for aqueous titration – pH combination	No Change
		Reagent bottles	
		The automatic titrator shall be accompanied with	
		the following accessories:	
		Electrode pH glass body combination Electrode for argentometric / precipitation	
		titration – silver pin combination	
		Electrode for redox titration – Platinum pin	
		combination	
		2. Combine functionality:	
		Offered auto titrator must have functionality for	
		determination of pH and for performing	No Change
		aqueous titration, redox titration, argentometric / precipitation titration,	
L			

complexometric titration and silver assay	
3. mV range: ± 2000 mV or higher	No Change
4. Accuracy: ± 0.10 mV or better	No Change
5. Polarized sensor range: $0 \pm 3200 \text{ mV}$	No Change
Polarized sensor Resolution: 0.10 mV or better	No Change
6. Burette resolution: 1 μL	No Change
7. Fill and drain time: Burette for Fill and Drain Time : 20 s	No Change
8. Titration head: Manual stand with swiveling arm	No Change
9. Stirrer System: Instrument must have inbuilt magnetic stirrer which prevent vortex formation and enables better mixing for fast response of electrode	No Change
10. End point detection: Potentiometric and voltametric	No Change
11. Cut-off criteria: Volume, pH/mV and endpoint	No Change
12. Special feature: Auto titrator should perform fast, reliable, and reproducible automated titrations. Auto burette recognition It should have a mode for performing automated calibrations program and save at least 100 user defined methods with password protection. It should provide flexible pH, redox, and ion concentration titrations. The unit should also have feature of equivalence point titrations, preset pH or mV endpoint titrations. Auto titrator should have minimized downtime with easily replaceable burettes, tubing, and dispensers. Auto titrator should have a feature to leave unattended in running condition until titration is completed. Provision to connect electrode with BNC connector and also for differential electrode	No Change
13. Memory: Auto titrator should have memory to store at least 100 titration data sets with date/time stamp, transferable to printer, computer, or USB drive.	No Change
14. Display: Minimum 7" touch screen display with LCD graphic display the display should clearly show online graph of titration trend and also the status of burette filling, dispensing	No Change

		15. Report format: Parameters and results, Data table for mV, pH, mV/ml, and volume (μL) titration curve mV v/s μL	No Change
		16. Workstation: Computer latest model exclusive for use with Potentiometric Auto titrator to be provided with appropriate licensed software. Laser jet printer to be supplied.	No Change
		17. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered.	No Change
7	Photo Fluorimeter	1. Supply, Installation and demonstration of LED based Uranium Analyser with windowsbased software.	No Change
		2. Analytical technique: Fluorescence property of uranium.	No Change
		3. Element to be analysed: Uranium in aqueous medium.	No Change
		4. Radiation source: UV Light Emitting Diode (LED)	No Change
		5. Energy of LED per Pulse: 20µJ or higher	No Change
		6. Repetition rate: 1000 pulse per second	No Change
		7. Pulse to pulse variation of output energy: less than 1%	No Change
		8. Life of source of excitation: Minimum 5 years or more	No Change
		9. Detector: Photomultiplier tube	No Change
		10. Fluorescence averaged over: 2000 pulses	No Change
		11. Analyte volume: less than 10 millimetres	No Change
		12. Cuvette: Open top with non-sealing PTFE cover and transmission better than 80%	No Change
		13. Minimum detection level: 0.2 ± 0.1 microgram per litre of uranium concentration	No Change
		14. Dynamic range: 0.2 – 500 microgram per litre uranium concentration	No Change
		15. Precision: RSD must be less than 5%	No Change
		16. Mode of operation: Calibration curve method, standard addition method and fluorescence counts method	No Change
		17. Display: 18cm full colour LCD display with touch screen operation showing mode of operation, sample ID, uranium concentration in microgram per litre and other relevant information	No Change
		18. Memory: Uranium concentration data with sample ID can be stored (Min. 1000 measurement).	No Change

	19. Software: Windows based software for data administration and documentation of measuring series.20. Facility for introduction of sample ID, matrix	No Change
	type and date of analysis.	No Change
	21. Facility for transferring the data to computer and statistical analysis of data should be available.	No Change
	22. It should include the provision to draw the calibration curve with best $-$ fit line equation and correlation coefficient.	No Change
	23. Facility for standard addition method and concentration calculation should be available.	No Change
	24. Accessories: Cuvette (4 numbers with each analyser unit), uranium standard, micro pipettes and power supply for the analyser unit	No Change
	25. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered.	No Change
Dissolution Apparatus with Auto Sampler 14 Stations	Programmable tablet/capsule dissolution tester as per latest IP/BP/USP with all standard Polycarbonate Jars, Jar lids, fan paddles, basket paddles with basket in glass/acrylic bath with heater. Microprocessor controlled automatic dissolution rate test apparatus with a comprehensive self check routine which is initiated when power is switched on with following features /specifications:-	No Change
	2. Quick interchangeable between USP 1 and 2 Method of testing.	No Change
	3. Suitable for sustained and controlled release products.	No Change
	4. High resolution Display with touch screen interface and Microprocessor controlled electronic speed controller.	No Change
	5. Should have Motorised lift mechanism for hands free and quiet operations.	No Change
	6. Automated tablets drop at single instance should be available.	No Change
	7. Speed range: 20 to 320 rpm (± 1 accuracy) or better.	No Change
	8. Water bath must be made of acrylic/equivalent material with capacity to accommodate at	No Change
	least 8 bowls having a normal capacity of 1000 ml each of drawing system and	No Change

On-Off. Drain tap for easy draining.	
9. The test vessels/Jars should be made of UV	
resistant Boro silicate glass or other suitable	No Change
transparent material.	No Change
10. Temperature range should be Ambient to	
55°C or above with auto calibration system and	
that should not start until required temperature is	
achieved.	No Change
Temperature Accuracy : $\pm 1 ^{\circ}\text{C}$	
Temperature Resolution : ± 0.1 °C	
11. Output: (A) RS 232 port / USB port for PC	
connectivity (B) Print out of test parameters	No Change
and report. Suitable laserjet printer	No Change
should be supplied.	
12 The software should make the system GLP	No Change
compliant with 21CFR part 11 compliances.	No Change
13. Audit trails for all activities report generation	
and printing with multilevel user roles with	No Change
password protection, electronic signature facility	No change
should be available.	
14. Time interval Selector- In steps of 1 minute.	No Change
15. Temperature sensor – Pt 100	
Dissolution process time-1 min to 72 hours and	No Change
more.	
16. System should be PC compatible	No Change
17. EXTRA ACCESSORIES:	
(i) Intrinsic Dissolution Apparatus (rotating and	
stationary) - One Set	
(ii) Enhancer Cell- One Set	
(iii) Felodipine Basket - One Set	
(iv) Sampling Cannula - One Set	
(v) Apparatus 5 & amp; 6 as per U.S.P – One Set	
each	No Charge
(vi) Sinkers for capsules- 24 nos.	No Change
(vii) Chemical resistant poly carbonate bowls-08	
nos.	
(viii) Standard Calibration and Validation Kit-	
01 nos.	
(ix) Bowl stand for eight bowls- 01 nos.	
(x) Particle filters: 10 micron- 100 nos. and 0.45	
micron -100 nos.	
18. USFDA (510K) / European CE (Issued by	
10. OSI DI (510R) / Lutopean CL (1550ed 0)	
Notified Body) approved Model should be	No Change

9	DT apparatus with facility for Bolus,	1. Microprocessor controlled Disintegration Test Apparatus with four basket unit and water	No Change
	Vaginal Tablet & Suppository	bath system which should conforms to standards of I.P/B.P/U.S.P in regards of	No Change
		Disintegration tests with following specifications with standard accessories:	No Change
		2. It should conduct four different tests individually as well as simultaneously.	No Change
		 3. Digital indicator for temperature with electronic heater driver with water bath. Illuminator for clear observation of disintegration process. Printer interface should be provided for recording parameters such as Temperature, batch no., time etc 	No Change
		 4. Illuminated LCD Display screen. Programmable digital timer. PAUSE & PARKING facility and Password protection should be available. Instrument should be Wobble and vibration free. 	No Change
		5. Number of Strokes: 30 storks per min.	No Change
		Extra Accessories:	No Change
		(i) 6 Basket unit with discs: 8 Nos.	No Change
		(ii) Only fluted Discs for six basket unit: 24 nos	No Change
		(iii) Bolus basket with three tubes with discs: 02 Nos.	No Change
		(iv) Bolus basket with one tube with discs: 02 Nos	No Change
		 6. TABLET DISINTEGRATION TEST APPARATUS FOR SUPPOSITORY & PESSARIES with following specifications: Automatic rotation through 180 Degrees. Selectable cycling time for 1 minute or as desired. Programmable testing time for 1 min. to 10 hours. Programmable testing time for 1 min. to 10 hours. Digital display of elapsed testing time. Built-in circulation pump, to maintain the Temperature at 37.0 °C. Temperature settable between 32.0 °C to 40.0 °C Separate attachment for Pessaries should be provided Z. USEDA (510K) / European CE (Issued by 100 °C) 	No Change
		7. USFDA (510K) / European CE (Issued by	No Change

		Notified Body) approved Model should be offered.	
10	Polarimeter digitalwithMultiWavelength	1. Measuring Mode: Optical Rotation, Specific	No Change
		2. Display: On screen LCD / LED (touchscreen) and / or on personal computer via USB ports (if	No Change
		operating on PC, PC requirement should be mentioned). Touchscreen will be preferred	No Change
		3. Accuracy: 0.01 deg Arc or better	No Change
		4. Reproducibility: 0.01 deg Arc optical rotation	No Change
		5. Resolution: 0.01 deg Arc optical rotation, 0.001% concentration, 0.001 specific rotation	No Change
		6. Measuring Range: ± 89.9 deg Arc Optical Rotation, ± 999.99° Arc Specific Rotation, 0- 99.9% Concentration	No Change
		7. Optical Wavelength: 589 nm Na and Tungsten-halogen or Hg- Lamp (for 633 mm/ 578 mm / 546 mm / 436 mm / 405 mm)	No Change
		8. Light Source: Sodium/Tungsten-halogen/LED with lifetime 100,000 h of operation	No Change
		9. Prism: Glan Thompson Calcite prism	No Change
		10. Detector: PMT	No Change
		11. Aperture: Should be variable for low concentration measurements	No Change
		12. Temperature: Temperature Range 15 °C to 40°C	No Change
		Temperature Accuracy: ±0.1°C	No Change
		13. Calibration: Automatic Calibration In-built via touchscreen.	No Change
		14. Calibration Standards: As per applicable standards	No Change
		15. Measurement time: 5 Measurements in less than 25 sec Avg.	No Change
		16. Sample Compartment: Accept sample tubes up to 200 mm	No Change
		17. Compliance: Full GMP/GLP and 21 CFR Part 11	No Change
		18. Data memory: > 2 GB	No Change
		19. Interfaces: Min. 4 USB ports, RS 232 standard or later standard, Ethernet, VGA port, CAN	No Change
		bus. Instrument should be compatible with common brands of PC, Keyboard, Printer and	

	memory stick/external hard drives.	
	20. Sample cells:	
	Two Sample cells having pyrex glass with stopper.	
	Sample Length Sample Volume	No Change
	a. 100 mm 1.5 ml	
	b. 200 mm 2.0 mL	
	21. Power requirements: 230 V / 50 Hz – 230V/60Hz	No Change
	22. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered.	No Change
11 Melting point apparatus Digital	temperature controller.	No Change
	2. System should be based on automatically detection principal of melting point by silicon photodiode.	No Change
	3. Heating media must be by aluminium block.	No Change
	4. Temperature range of instrument should be $+5^{\circ}$ C above ambient to 350° C.	No Change
	5. It should have readability of approx. 0.1°C or better	No Change
	6. Instrument should have accuracy of temperature approx. $\pm 0.2^{\circ}$ C for $+5^{\circ}$ C above ambient to 200°C and $\pm 0.5^{\circ}$ C for 200°C to 350° C.	No Change
	7. System should have in-built overheating protection set by user in method parameter.	No Change
	8. It should have feature of automatic heating depending upon temperature difference for heating before electromagnetic pulse.	No Change
	9. Heating rate should be variable from 0.2 to $5.0 ^{\circ}\text{C}$ /min.	No Change
	10. LCD Display of approx. 20 x 4 Line Alphanumeric Backlit.	No Change
	11. System should have automatic detection of melting point and melting range.	No Change
	12. Must have the average reading display for three same sample of Melting Point	No Change
	13. Detection of boiling point through manual/automatic.	No Change
	14. It should have 5X magnification or better.	No Change
	15. Keypad should be membrane waterproof polycarbonate soft touch keypad.	No Change
	16. Should have camera with TFT Display for	No Change

		viewing melting capi	
		llary and boiling tube in capillary view.	
		17. Should have feature of approx. 40 method	
		for melting & amp; 10 for boiling sample with	No Change
		view and print and delete facility.	
		18. Should be with seven calibration standards.	No Change
		19. It should have sample filling height of 3mm.	No Change
		20. Maximum heating time should be around 6	
		minutes from 50°C to 350°C	No Change
		21. Maximum cooling time should be around 6	
		minutes from 350°C to 50°C	No Change
		22. Should have temperature sensor Duplex PT-	
		100, One for internal used and one for calibration	No Change
		purpose by external source.	C
		23. Should have calibration data storage and	
		analysis data storage features.	No Change
		24. It should have function of report formation	
		as per GLP Compliance.	No Change
		25. A printer of 40 / 80 Column Dot Matrix	
		Printer of Centronics Parallel Port / Serial (RS-	
		232 C) Port interface should be provided with	No Change
		system.	
		26. USFDA (510K) / European CE (Issued by	
		Notified Body) approved Model should be	No Change
		offered.	0
12	Analytical Balance	1. Application: Required to measures mass to a	
	(4 digit) with	high degree precision with a weighing capacity	
	printer along with	upto 220 g and a readability of 0.1 mg	No Change
	Anti Vibrator	and protected by a draft shield or an enclosure.	
	Table	2. Operational Requirements: It should have	
		Microprocessor based, single pan top	
		loading analytical balance with high	
		accuracy and precision.	
		• Reading of the weight by digital display	No Change
		• Balance with transparent case.	
		• Weighing with automatic and manual start and	
		provision for data interface.	
		3. Technical Specifications:	
		• Weigh accurately up to 3rd decimal place.	
		• Fully automatic time and temperature controlled internal calibration and balance should	No Change
			THO Change
		be capable to adjust itself Auto zero setting.	
		• Weighing capacity up to 220g Readability 0.1	
		mg, Repeatability 1 mg or less.	

		4. Balance should have:	
		Fast dismantling chamber for easy clean up	No Change
		5. Environmental factors:	
		· Safety for electromagnetic compatibility.	No Change
		• The unit shall be capable of operating in	No Change
		ambient temperature of 20-30 ° C and relative	
		humidity of 80%.	
		6. Accessories : All necessary accessories should be provided with unit.	No Change
		7. USFDA (510K) / European CE (Issued by	No Change
		Notified Body) approved Model should be	No Change
		offered.	
13	VISCOMETER	1. Display type: Built-in-Display	No Change
		2. Measuring range for dynamic viscosity: 1.0 to	No Change
		30000 mPas	No Change
		3. Measurement: Single and multipoint	No Change
		4. Display Resolution	
		Viscosity: 4 significant digits or better Density:	No Change
		0.001 gm/cm3 or better	No Change
		Thermostat: 0.01 0 C or better	
		5. Accuracy	
		Viscosity: 0.5% of measured value or better	No Change
		Repeatability + 0.01 0 C or better	C
		6. Standards: Standards silicon oil	No Change
		7. Control system Interfaces: USB,	No Change
		8. Spindle/Speed combination 18 or more	No Change
		9. Speed 0.1-200 rpm	No Change
		10. Other Features-Programmable	
		Auto range function, Temperature display, Stop	
		condition, Time, Temperature, Torque	No Change
		andViscosity.	
		11.USFDA (510K) / European CE (Issued by	
		Notified Body) approved Model should be	No Change
		offered.	
14	Bench Top pH	1. Unit: Consisting of Tri-combination pH/ATC	No Change
	Meter digital	electrode with an electrode holder/arm with	_
		smooth movement and protection cover	No Change
		2. Working pH Range: 0 – 14 pH	No Change
		3. pH resolution: ± 0.01 pH	No Change
		4. Mv Range: $0 - \pm 1999$ Accuracy ± 1 mV	No Change
		Resolution: 1 mV	The Change
		5. Temperature Compensation: 0 to $100 \circ C$ with	No Change
		ATC	

	6. Temperature Range -10 to +105°C Resolution 0.1 °C Accuracy ± 0.5 °C	No Change
	ATC range 0 to 100°	No Change
	 7. Calibration Points : Should have 3 stage calibration with auto buffer recognition NIST traceable buffer set 500 ml each (pH 4.0, 7.0 & amp; 9.0). 	No Change
	8. Alarm : Calibration reminder interval (1 to 999hrs)	No Change
	9. Temperature Compensation: Automatic	No Change
	10. Display: Backlit blue LCD with operation icon digital display with 0.001 pH unit readability	No Change
	11. AccessoriesExtra ElectrodeStandard buffer solution (pH 4.0, 7.0,9.0 x 500ml for each bottle)Standard electrode holderAC /DC Adaptor.	No Change
	12. Power: 9V DC	No Change
	13.Data storage& Output: Data storage facility and record maximum and minimum value. RS.232C output and supplies Data connector cable.	No Change
	14.USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered.	No Change
15 HOT AIR OVEN	1. Size Inner Volume: 200 – 250 L	No Change
	2. External Body: Mild Steel with powder coated/ Stainless Steel 304 Grade	No Change
	3. Internal Chamber: Stainless Steel 304 Grade	No Change
	4. Insulation: Mineral Wool/ Ceramic Wool	No Change
	 5. Door Inner: Stainless Steel 304 Grade Outer: Powder coated Mild Steel/ Stainless Steel 304 Grade Self-closing magnetic lock having door sealing material suitable to high temp 	No Change
	6. Adjustable Shelf 2– 3 Perforated Stainless- Steel shelves (Removable) 304 Grade	No Change
	7. Shelf Rest Pitch 30 mm	No Change
	8. Temperature Range RT +5°C to 300 °C	No Change
	9. Temperature Accuracy: $\pm 0.5 \text{ O C}$ or better	No Change

		 10. Temperature Uniformity: ±2 °C or better 11.Control Panel: Door mounted Digital LCD display for set temperature, attained temperature, set time, heating ON/OFF 	No Change
		12.USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered.	No Change
16	VACUUM OVEN	1. Useful volume: 27 L or more	No Change
		2. Shell construction: High quality fabrication of S.S body with double wall arrangement and	No Change
		M.S panel board with neat powder coat painting	No Change
		3. Door: Specially designed SS door and inner door	No Change
		4. Insulation: Alumina fiber insulation/Rockwool	No Change
		5. Skin temperature: Maintained just above ambient	No Change
		6. Number of trays: Two SS Trays (Min.)	No Change
		7. Heating elements: Heater provided around the chamber	No Change
		 8. Operation: Single phase / AC Maximum Temperature: 200°C Temperature control: PID programmable temperature indicator Accuracy: ±1°C Indications: Main indicator and Output indicator Control Switches: Mains on, output on and output power selection Vacuum: Min 1 (One) Torr Vacuum Indication: Analog/ Digital gauge Vacuum pump: Rotary vane oil less Timer: Special timer for vacuum system 9. Operation function: Fixed temperature 	No Change No Change
		operation, Auto-start operation,10. Safety features: Self-diagnosis functions (Sensor, Heater Triac, AutomaticOverheatingprevention),independent overheating prevention, Key lock function, Electricleakage breaker	No Change
		11. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered.	No Change

13 Function No Chang 14 Cover & & amp; drain valve) No Chang 2. Ultrasonic power: 100 W or more No Chang 3. Ultrasonic frequency: 32 to 38 KHz No Chang (Ultrasonic power: 100 W or more No Chang 3. Ultrasonic frequency: 32 to 38 KHz No Chang (Ultrasonic power: and frequency should be variable to form uniform cavitation in tank) No Chang 4. Temperature, Range: Ambient +5°C to 70°C No Chang 5. Timer: Electronic digital timer (0-99 No Chang 6. Control panel: Digital indicator & amp; autocontroller for temperature, ultrasonic frequency and electronic digital timer No Chang 7. Material of construction: All parts including accessories should be made of AISI-304/316 or equivalent stainless-steel material No Chang 8. Accessories: SS SS mesh baskets- 2 Nos 16. Perforated trays - 2 Nos Beaker holder - 2 Nos No Chang 1700 kit, cleaning accessories and spare parts 9. USFDA (510K) / European CE (Issued by No Chang No Chang 18. Fume Hood 1. Working Size: W x D x H (mm) – 1200 x 900 No Chang 2. B	e	
3. Ultrasonic frequency: 32 to 38 KHz No Chang (Ultrasonic power and frequency should be variable to form uniform cavitation in tank) No Chang 4. Temperature Range: Ambient +5°C to 70°C with accuracy ± 1°C. No Chang 5. Timer: Electronic digital timer (0-99 minutes) with automatic switch on/off No Chang 6. Control panel: Digital indicator & amp; autocontroller for temperature, ultrasonic frequency and electronic digital timer No Chang 7. Material of construction: All parts including accessories should be made of AISI-304/316 or equivalent stainless-steel material No Chang 8. Accessories: SS mesh baskets- 2 Nos No Chang 7.est tube holder - 2 Nos. Glass bottle holder - 2 Nos. No Chang 7.ool kit, cleaning accessories and spare parts No Chang 9. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered. No Chang 18 Fume Hood 1. Working Size: W x D x H (mm) – 1200 x 900 x 900 with Temp/Air Vel/Air Flow No Chang 2. Body Features: Double Wall Construction Completely made from GI sheet with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Amp; Heat Resistance, Fire retardant, smooth finish, easily cleanable, made out of durable FRP sheets / SS 304 of 18-20 gauge thickness. No Chang 3. Working Table Top: Granite with 18 mm Thickness (Min.		
Image: construction of the second	e	
18 Fume Hood Variable to form uniform cavitation in tank) 4. Temperature Range: Ambient +5°C to 70°C with accuracy ± 1°C. No Chang Timer: Electronic digital timer (0-99 minutes) with automatic switch on/off 6. Control panel: Digital indicator & amp; autocontroller for temperature, ultrasonic frequency and electronic digital timer 7. Material of construction: All parts including accessories should be made of AISI-304/316 or equivalent stainless-steel material 8. Accessories: SS mesh baskets- 2 Nos Beaker holder - 2 Nos Conical flask holder - 4 Nos Test tube holders - 2 Nos. Glass bottle holder - 2 Nos. Glass bottle holder - 2 Nos. Tool kit, cleaning accessories and spare parts 9. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered. 1. Working Size: W x D x H (mm) - 1200 x 900 x 900 with Temp/Air Vel/Air Flow 2. Body Features: Double Wall Construction Completely made from GI sheet with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & amp; Heat Resistance, Fire retardant, smooth finish, easily cleanable, made out of durable FRP sheets / SS 304 of 18- 20 gauge thickness. 3. Working Table Top: Granite with 18 mm Thickness (Min.) 4. Utilty connections: Should be provided with Utility Pipe lines for Nitrogen, Compressed 		
4. Temperature Range: Ambient +5°C to 70°C with accuracy ± 1°C. No Chang 5. Timer: Electronic digital timer (0-99 minutes) with automatic switch on/off No Chang 6. Control panel: Digital indicator & amp; auto- controller for temperature, ultrasonic frequency and electronic digital timer No Chang 7. Material of construction: All parts including accessories should be made of AISI-304/316 or equivalent stainless-steel material No Chang 8. Accessories: SS mesh baskets- 2 Nos Perforated trays - 2 Nos Beaker holder - 2 Nos Glass bottle holder - 4 Nos No Chang 7. Jool kit, cleaning accessories and spare parts No Chang 9. USFDA (S10K) / European CE (Issued by Notified Body) approved Model should be offered. No Chang 18 Fume Hood 1. Working Size: W x D x H (mm) – 1200 x 900 x 900 with Temp/Air Vel/Air Flow No Chang 2. Body Features: Double Wall Construction Completely made from GI sheet with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & amp; Heat Resistance, Fire retardant, smooth finish, easily cleanable, made out of durable FRP sheets / SS 304 of 18- 20 gauge thickness. No Chang 3. Working Table Top: Granite with 18 mm Thickness (Min.) No Chang 4. Utility connections: Should be provided with Utility Pipe lines for Nitrogen, Compressed No Chang	e	
18 Fume Hood No Chang 18 Fume Hood 1. Working Size: W x D x H (mm) – 1200 x 900 x 900 with Temp/Air Vel/Air Flow No Chang 18 Fume Hood 1. Working Table Construction Completely made from GI sheet with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Mo Chang No Chang 18 Fume Hood 1. Working Table Top: Granite with 18 mm Thickness (Min.) No Chang 18 Fume Hood 1. Working Table Top: Granite with 18 mm Thickness (Min.) No Chang 18 Fume Hood 18. So Construction Completely made from GI sheet with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Mo Chang No Chang 18 Fume Hood 1. Working Table Top: Granite with 18 mm Thickness (Min.) No Chang 18 Fume Hood 18. Construction: Completely made from GI sheet with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Mo Chang No Chang 19 Utility connections: Should be provided with Utility Pipe lines for Nitrogen, Compressed No Chang		
18 Fume Hood 1. Working Size: W x D x H (mm) – 1200 x 900 x 900 with Temp/Air Vel/Air Flow No Chang 18 Fume Hood 1. Working Size: W x D x H (mm) – 1200 x 900 x 900 with Temp/Air Vel/Air Flow No Chang 18 Fume Hood 1. Working Table Top: Granite with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Morchang No Chang 18 Fume Hood 1. Working Table Top: Granite with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Morchang No Chang 18 Fume Hood 1. Working Table Top: Granite with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Morchang No Chang 18 Fume Hood 1. Working Table Top: Granite with Highly corrosion resistant epoxy powder coating Inner Chamber - Chemical & Morchang No Chang 19 Utility connections: Should be provided with Utility Pipe lines for Nitrogen, Compressed No Chang	e	
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and electronic digital timer indextreme 7. Material of construction: All parts including accessories should be made of AISI-304/316 or equivalent stainless-steel material No Change equivalent stainless-steel material 8. Accessories: SS mesh baskets- 2 Nos Perforated trays - 2 Nos Beaker holder - 2 Nos Conical flask holder - 4 Nos No Change Conical flask holder - 2 Nos. Glass bottle holder - 2 Nos. Glass bottle holder - 2 Nos. No Change Original flask holder - 2 Nos. 9. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered. No Change Original flask holder - 2 Nos. 18 Fume Hood 1. Working Size: W x D x H (mm) - 1200 x 900 x 900 with Temp/Air Vel/Air Flow No Change Original flash equivalence of the flash equivalence o		
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A. Utility connections: Should be provided with Utility Pipe lines for Nitrogen, CompressedNo Change		
Utility Pipe lines for Nitrogen, Compressed	e	
Utility Pipe lines for Nitrogen, Compressed	e	
Air, Water No Change		
	e	
No Unang	e	
6. Exhaust Duct: No Chang	e	
5 Outer Covering (MoC): Epoxy Powder	je je	

		Chemically Resistant, PVC duct pipe Provided with bends, dampers, transitions and clamps up to blower All joints should be curved in order to avoid any backtracking of fumes and a smooth flow to exhaust fumes Two exhaust ports connected to the fume hood exhaust system internally 7. Sink & Tap: Sink : Shall made of chemically resistant material No leakage shall observe from Outlet Nipple Shall be provided with Single way / Three-way swan neck tap	No Change
		8. Exhaust Blower & Motor: Motor Blower: 1400/2800 Rpm Chemical & heat resistance heavy-duty	No Change
		9. Door / Sash/ Shutter Material - Toughened Glass	No Change
		10. Noise Level: Not more than 65 dB	No Change
		11. Shelves in Base Storage Units/ Cabinets Number – 2	No Change
		12. Display LCD Control panel	No Change
		13. Illumination LED Light	No Change
		14. Electrical Arrangements Min. 2 Nos. 15/5 amps 3 pin electric socket	No Change
		15. Power Requirement 220/ 230 Volts	No Change
		16 Recommendations or Warnings: Any warning signs would be adequately displayed	No Change
19	UV Cabinet	 Unit: User-safe, self-contained chamber with Convenient handling Clear viewing window (open/close via hinged door) through button operation for each of two UV tubes Homogeneous illumination of chamber 	No Change
		2. Viewport: Soft rubber viewport and contrast control filter that absorbs UV energy to protect the eyes	No Change
		 3. UV tubes: Two UV tubes for illumination each 8W Long-wave UV light 366nm Short-wave UV light254nm) 	No Change

1		4. Safety timer	
		User safety through tilt sensor and timer	No Change
		(automatic switch- off after 10 min)	ito change
		5. USFDA (510K) / European CE (Issued by	
		Notified Body) approved Model should be	No Change
		offered.	ito change
20	Magnetic Stirrer	1. Should have Work plate Dimensions(mm)—	
		approx. 5-inch X 7 inch	No Change
		2. Work Plate should be coated with poly-	
		ceramic.	No Change
		3. It should have maximum stirring capacity for	NL CI
		approx. 5 liters	No Change
		4. Should have speed and temperature with twin	N. Change
		display LCD	No Change
		5. Should have maximum work plate heating	No Chango
		temperature 500°C	No Change
		6. Should have RPM-100- 1100 with speed +5 %	No Change
		with digital display	i to change
		7. External temperature sensor PT100 should be	
		available for hotplate model, real-time	No Change
		controls medium temperature.	
		8. Should have PID temperature technology	
		precise controls heating process, should rapidly	No Change
		reach target temperature and should have enhanced control accuracy.	C
		· · ·	
		10. It should have hot warning which	No Change
		indicates residual hotplate temperature.	
		11. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be	No Chango
		offered.	No Change
21	Refrigerator 500		
21	ltr double door		
		1. Material: Stainless steel	No Change
		2. Capacity: Approx. 500 L and above	No Change
		3. Adjustable Shelves: Tempered glass shelves	
		05 No.	No Change
		4. Doors:	No Change
		5. Two Stainless steel doors side by side	No Change
		6. Refrigerator and freezer must be side by side	No Change
		7. Temperature Range:	No Change
		8. Independent Digital display and temperature	
		controls for refrigerator and freezer	No Change
		9. Refrigerator +2 o to +8 o C Freezer -15 to - 20 o C	No Change
		10. Audio alarm: Alarm if door is ajar for long	No Change
	l		110 Change

		11. Inner body: Rust Free Material	No Change
		12. Refrigerant: CFC / HCFC Free	No Change
		13. Frost Free: In built Voltage Stabilizer	No Change
		14. Door Lock & Interior light High/Low cut	i to change
		with timer delay	No Change
		15. Temperature Control:	No Change
		16. Same Temperature: Top to Bottom Microprocessor based	No Change
		17. Temperature Controller with Digital Display	No Change
22	Deep freezer -20 C	 Unit: Interior: Full stainless steel which can be easily cleaned and eliminates any possibility of cross-contamination Cooling Type: Direct cooling Should be Vertical (Upright)type 	
		 Microprocessor-based Frost Free Refrigerant: CFC Free Easy to read, LED control pane and alarm status with integrated diagnostics. Doors with key lock Castors for easy movability 	No Change
		2. Capacity: 250 L or higher with a combination of sealed 5-7 pullout drawers/shelves of different sizes that can be adjusted for storage flexibility	No Change
		 3. Temperature Range - 10 ~ - 20 °C with temperature controller Digital temperature display LED Display for temperature and temperature history which can be downloaded via a USB port Calibration facility 	No Change
		 4. Alarms: Acoustic/visual Safety alarms for High/low temperature, Door ajar and Malfunction system alarms 	No Change
		5. Optional Accessories: Racks for 50 mm boxes (incl. dividers), Racks for 75 mm boxes (incl.dividers)	No Change
		6. Voltage stabilizer: Suitable and compatible voltage stabilizer	No Change
		7. USFDA (510K) / European CE (Issued by	No Change

		Notified Body) approved M	lodel should be	
		offered.			
23	Thermostatic	a. Material of			
	Water Bath	,		ess-steel bath to	
		preventing ru	ist, chemical	damage and	
		contamination.			No Change
				coating exterior	6
		for easy cleanup			
			resistant stain	less-steel Gabled	
		drip free lid			
		2. Unit	. 11 1 1	••. • •	
		i. Microproces		· · ·	
			should have lift	up drip free bath	
		cover;	1		
		test tubes racks.		ven for flasks and	No Change
				n	
		iv. Convenient		g should prevent	
		v. Water bath contamination a			
		vi. Easy clean		aigac.	
		3. Temperature	-		
		-		ent +5°C to 99°C	
		Temperature Ac			
		ii0°C Tempe	No Change		
		.0°C			
			D display for o	perating status of	
		TEMP Over-Ter			
			e calibration fur		
		4. Alarms			No Change
			arning safety s	ignals should be	
		there for high/lo	•	0	No Change
		ii. Low liquid	level	_	
		5. USFDA (5	10K) / Europea	in CE (Issued by	
		Notified Body) approved M	odel should be	No Change
		offered.			
		Tank Capacity r	not less than 12 l	tr.	No Change
24	1. Computer with	Items	Specification	Final	No Change
	Printer		Name	Specification	i to chunge
		Processor-	Processor		No Change
		Intel, AMD	Make		
		Processor	10 or higher		No Change
		Generation	4 1 1 1		<u>0</u> -
		Number of	4 or higher		NL CI
		Cores per			No Change
		Processor	27.000000		No Change
		Processor	3.7 or more		No Change

D			1
Base			
Frequency			
(GHz)	I to the C	(1 D')	
Processor		ration 64 Bit	
Description	processor sup		No Change
	Ghz or higher	clock speed.	
Cache (MB)	6.or higher		No Change
Motherboard	Chipset	Intel, AMD	
	Series	compatible	
		chipset with the	
		above processor.	
		Motherboard	
		make from the	No Change
		same desktop	No Change
		OEM (OEM	
		logo must be	
		embossed in the	
		motherboard)	
Security	Discrete TPM	2.0	No Change
Expansion	1 or more		
Slots (PCIe x			No Change
16) (Number)			
Expansion	2 or more		
Slots (M Dot			No Change
2)			
Graphics	Graphics	Dedicated /	No Change
	Туре	Integrated	No Change
Certification	ROHS	Yes	
	Compliance		No Change
Energy Star	8.0 or latest	<u> </u>	
for the quoted			N. Change
Desktop			No Change
Model			
FCC,UL,CE	Yes (all)		
(for the			
quoted			No Change
Desktop			The Change
model not for			
the quoted			
ISO	ISO 9001,1400	01,27001	No Change
(OEM/Bidder)			THE Change
EPEAT India	Yes		
(for the			No Change
quoted			

dealston			
desktop			
model)		P (
Operating System	Operating System (Factory Pre- Loaded)	Factory pre- install Windows 11 Home (64 bit) with latest Service Pack and Preloaded License, Systems Hardware driver should be available in OEM website against the offered model.OEM letter confirming that Operating system pre- loaded / pre- installed from OEM factory	No Change
OS Certification	Linux (Linux available in th with the quote	rofessional and certification must le Public Domain ed Desktop model d Desktop series	No Change
Memory	RAM Size (GB)	8 or more	No Change
RAM Expandability up to(using spareDIMM Slots in GB)	64, 128 Or hig	her	No Change
Power	Power Supply Capacity (Watt)	Minimum 200W	No Change
Minimum Power Efficiency Range (%)	85 - 94		No Change

Storage	TypeofDrivesusedtopopulatetheInternalBays	SATA	No Change
TotalSATACapacity (GB)	1000 or more		No Change
Connectivity	Wireless Connectivity	Yes	No Change
If Yes, Type of Wireless Connectivity	Wi-Fi 802.11a	2	No Change
Number of Ethernet Ports	1		No Change
TypeofEthernet Ports	10/100/1000 Integrated Gigs	on board abit Port	No Change
Ports	Number of USB Version 2.0 Ports	4	No Change
NumberofUSBVersion3.2Gen1Ports	4		No Change
NumberofVGA Ports	1		No Change
Number of HDMI Ports	1		No Change
Cabinet	Cabinet Form Factor	SFF or Tower	No Change
Monitor (Same Desktop OEM Make)	Monitor Technology	IPS, VA, TN	No Change
LED Backlit Monitor Size (INCHES)	18.5 or higher		No Change
Monitor Resolution (PIXELS)	1366 x 768 or	better	No Change
Printer	.		
1. Print Technol	••	·	No Change
	nine- Multifunct	ion Machine	No Change
3. Type of Print		oto Davas or 1	No Change
4. Cartridge Tec Toner (MonoCo	chnology- Separa omponent)	ate Drum and	No Change
5. Developer Un	nit-Yes		No Change

		6. Platen/Flatbed Size- A4	No Change
			0
		7. Paper Size (Original/Image)- A4/A4	No Change
		8. RAM size (MB)- 64	No Change
		9. Minimum Speed per Minute as per ISO/IEC 24734 in A4 Size-Mono-25	No Change
		10. Scanning Feature Availability- Yes	No Change
		11. Duplexing Feature Availability- Yes	No Change
		12. Networking Feature Availability- Yes	No Change
		13. If yes, Type of Network Interface- Ethernet 10/100	No Change
		14. Original Document Feeder Type- ADF	No Change
		15. Feeder Capacity (Number)- 35	No Change
		16. Number of Main Paper Tray-1	No Change
		17. Each Main Paper Tray Capacity (Number)-	No Change
		250	No Change
		18. Bypass Facility- Yes	No Change
		19. If Yes, Bypass Tray Capacity-1	No Change
		20. Yield of the cartridge/Ink Tank/Ink Pack	No Change
		supplied with Machine as per ISO/IEC:	
		19752/2004(E) for Black(Number of prints)- 1000	
		21. Life of Drum in terms of number of Prints in	No Change
		case of Separate Drum and Toner cartridge	110 0111180
		technology - Black (Number of Prints)- 100000	
		22. Duty Cycle (No of Prints/month)- 10000	No Change
		23. Minimum Operating Temperature (Degree	No Change
		C)- 10	e
25	Muffle Furnace Digital	1. Inside Chamber Volume: 7 L or better with lift door with hot surface facing away from the operator and swing aside door at the front	No Change
		 2. Furnace construction: Double shell steel case with cooling fan to keep outside casecool High purity alumina fibre insulation for max. energy saving 	No Change
		3. Temperature Range: 900 - 1600 o C	No Change
		4. Standard Working Temperature:1200 o C	No Change
		5. Temperature accuracy: +/- 1°C	No Change
		6. Heating rate: The furnace should be of fast heating type with the maximum attainable temperature should reach as a ramp function in less than one hour.	No Change
		7. Accessories to be supplied: Protection Glove 2 pairs Crucible Clip 1 pair	No Change
		Crucibles 6 pcs	

		SS Tongs 2 pcs	
		8. USFDA (510K) / European CE (Issued by	
		Notified Body) approved Model should be	No Change
		offered.	i to chunge
26	Water purification	1. System should be capable of providing	
-0	system HPLC	ASTM Type I (18.2 Mega ohm resistivity) Water	
	water system	from	
		potable tap water, Wall	No Change
		mountable/bench-top system for microbiology /	110 0111180
		molecular biology/LC-MS/MS, GC-MS/MS,	
		ICPMS grade water applications.	
		2. System should be capable of handling feed	
		water Specification:	No Change
		3. Conductivity up to 2000 µS/cm,	No Change
		4. B. Fouling Index (SDI) & 12 and	No Change
		5. C. Total Chlorine less than 3 ppm,	No Change
		6. D. Should have Pressure 1-6 bar	No Change
		7. System should have a Pre-Filtration kit with	
		5μm & amp; 1 μm filter followed by a 3-stage	
		pre-treatment cartridge consisting of Activated	
		Carbon, Anti-scaling Agents and 0.5µm depth	
		filter to protect downstream	No Change
		cartridge. Pre-treatment with inbuilt softener to	
		handle 250-300 ppm of hardness & amp;	
		activated carbon for the removal of free chlorine	
		& amp; tap water Organics.	
		8. Reverse Osmosis module should be made up	
		of thin film composite polyamide RO membrane	
		with rejection rate of 94 - 99% and recirculation	No Change
		loop for optimum utilization of feed water, with	No Change
		provision of monitoring the performance on	
		display.	
		9. Should have Conductivity sensor before and	No Change
		after RO to monitor feed water conductivity.	i to chunge
		10. System should have Feed water specific	
		Purification pack before UV lamp consisting of	No Change
		mixed bed ion exchange resin/ micro	i to chunge
		filter / activated carbon to ensure better	
		purification and longer life of the cartridges.	
		11. System should have dual wavelength UV	
		Lamp (185 and 254nm) to ensure reduction of	No Change
		TOC as well as destruction of bacteria.	<u>8</u> -
		12. To ensure constant flow rate system should have unique temperature feedback mechanism	No Change
		have unique temperature feedback mechanism	No Change
		13. System should have co-axial resistivity cell	No Change

27 Eye wash shower and shower and use		1	[]	
27 Fye wash shower and 1.Safety shower and eye wash operates independently No Change 27 Fye wash shower and 1.Safety shower and eye wash operates independently No Change 27 Fye wash shower And 2.Safety shower and eye wash operates independently No Change 20 Figure Adjustable State Concection No Change 21 Shower Shower - Pull rod, For eyewash and Shower No Change 22 Fye wash shower I.Safety shower - Pull rod, For eyewash - Pul			with 0.01cm -1 cell constant at various stages of	
27 Eye wash and shower 1.Safety shower and eye wash operates independently sage. No Change 27 Eye wash shower 1.Safety shower and eye wash operates independently servers. No Change 27 Eye wash shower 1.Safety shower and eye wash operates independently No Change 27 Eye wash shower 1.Safety shower and eye wash operates in No Change No Change 27 Eye wash shower 1.Safety shower and eye wash operates in No Change No Change 27 Eye wash shower 1.Safety shower and eye wash operates in No Change No Change 27 Eye wash shower 1.Safety shower and eye wash operates in No Change No Change 3 Nater Inlet and Drain No Change No Change 3 Water Inlet and Drain No Change No Change 4 Water Inlet and Drain No Change No Change 5 Flow: 8 - 15 LPM No Change No Change 6 Activation: For shower - Pull rod, For eyewash in Change No Change 9 Pipe Material: Stainless steel No Change 9 Pipe Material: Safety shower in Conge				
27 Eye wash shower Add to the example of the example o				
27 Eye wash shower and shower 1.5 (10 km)				
27 Eye wash shower atl Safety shower and eye wash operates independently existing to shower of the context of the			Life of Cartridge no. of day's usage etc. and	No Change
27 Eye wash shower and shower 1.5. 50 liters PE tank with auto cut-off level sensors. No Change 27 Eye wash shower and shower No Change No Change 27 Eye wash shower and shower No Change No Change 27 Eye wash shower and shower No Change No Change 27 Eye wash shower and shower No Change No Change 3. Water Inlet and Drain No Change No Change 4. Water Outlet Connection No Change No Change 5. Flow: 8 - 15 LPM No Change No Change 6. Activation: For shower - Pull rod, For eyewash - Push plate/Foot paddle No Change No Change 7. Bowl material: Stainless steel No Change No Change No Change 27 Eye wash shower and shower No Change No Change 28 Flame Photometer 1. Safety shower and eye wash operates independently No Change 9. Pipe Material: ABS No Change No Change No Change 9. Flow material: ABS No Change No Change			facilitates estimation of volumetric life of the	
27 Eye wash shower and 1.Safety shower and eye wash operates independently No Change 27 Eye wash shower 1.Safety shower and eye wash operates independently No Change 3. Water Inite and Drain No Change No Change 4. Water Outlet Connection No Change No Change 2.7 Eye wash shower 1.Safety shower and eye wash operates independently No Change 2.7 Figure 1.Safety shower and eye wash operates independently No Change 3. Water Inite and Drain No Change 4. Water Outlet Connection No Change 5. Flow: 8 - 15 LPM No Change 6. Activation: For shower - Pull rod, For eyewash in Ochange No Change 7. Bowl material: Stage push plate No Change 2.7 Eye wash shower 1.Safety shower and eye wash operates independently 2. Type: Emergency Eyewash and Shower No Change 3. Water Inlet and Drain No Change 4. Water Outlet Connection No Change 7. Bowl material: Stage pone ball valve with yellow ABS push plate No Change 9. Pipe Material: Stainless steel No Change 10. Shower Head Material: Highly Visible Yellow ABS plastic No Change <th></th> <th></th> <th>cartridges.</th> <th></th>			cartridges.	
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Itters/hr No Change 17. Ultra-Pure (Type I) water should have following specs: No Change Resistivity 18.2 Mega Ohms.cm @ 25 Degree C. TOC < 5 ppb No Change Bacteria < 0.1 cfu/ml Particulates (.22 micron) < 1/ml Flow rate Adjustable between 50 ml / min to 2000 ml /min. No Change 18. All Consumables should be covered like (cartridges, filters etc.) during the warranty period and must quote separately after warranty usage. No Change 27 Eye wash and shower 1.Safety shower and eye wash operates independently No Change 2.7 For wash and shower 1.Safety shower and eye wash operates independently No Change 3. Water Inlet and Drain No Change No Change 4. Water Outlet Connection No Change No Change 5. Flow: 8 - 15 LPM No Change No Change 6. Activation: For shower - Pull rod, For eyewash - Push plate/Foot paddle No Change 7. Bowl material: SS tay open ball valve with yellow ABS push plate No Change 9. Pipe Material: Stainless steel No Change 10. Shower Head Material: Highly Visible Yellow ABS plastic No Change 9. Pipe Material: Stainless steel No Change <t< th=""><th></th><th></th><th></th><th></th></t<>				
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28 Flame Photometer 5. Flow: 8 - 15 LPM No Change 5. Flow: 8 - 15 LPM No Change 6. Activation: For shower - Pull rod, For eyewash - Push plate/Foot paddle No Change 7. Bowl material: ABS No Change 8. Valve Material: SS stay open ball valve with yellow ABS push plate No Change 9. Pipe Material: Stainless steel No Change 10. Shower Head Material: Highly Visible Yellow ABS plastic No Change 11. Supply Water: Drinking Water No Change 12. Operating Pressure: 2.81 kgf/cm² (40 PSI) No Change			4 Water Outlet Connection	.
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- Push plate/Foot paddle - No Change 7. Bowl material: ABS No Change 8. Valve Material: SS stay open ball valve with yellow ABS push plate No Change 9. Pipe Material: Stainless steel No Change 10. Shower Head Material: Highly Visible Yellow ABS plastic No Change 11. Supply Water: Drinking Water No Change 12. Operating Pressure: 2.81 kgf/cm² (40 PSI) No Change 28 Flame Photometer 1. Element Range: Should have Na, K, & amp;				No Change
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28 Flame Photometer 8. Valve Material: SS stay open ball valve with yellow ABS push plate No Change 28 Flame Photometer 1. Element Range: Should have Na, K, & amp; No Change			- I ush plate/100t paddle	
28 Flame Photometer yellow ABS push plate No Change 9. Pipe Material: Stainless steel No Change 10. Shower Head Material: Highly Visible Yellow ABS plastic No Change 11. Supply Water: Drinking Water No Change 12. Operating Pressure: 2.81 kgf/cm² (40 PSI) No Change			7. Bowl material: ABS	No Change
28 Flame Photometer 10. Shower Head Material: Highly Visible Yellow ABS plastic No Change 11. Supply Water: Drinking Water No Change 12. Operating Pressure: 2.81 kgf/cm² (40 PSI) No Change				No Change
Yellow ABS plastic No Change 11. Supply Water: Drinking Water No Change 12. Operating Pressure: 2.81 kgf/cm² (40 PSI) No Change 13. Element Range: Should have Na, K, & amp; No Change			8. Valve Material: SS stay open ball valve with	0
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12. Operating Pressure: 2.81 kgf/cm² (40 PSI) No Change 28 Flame Photometer 1. Element Range: Should have Na, K, & amp; No Change			8. Valve Material: SS stay open ball valve with yellow ABS push plate9. Pipe Material: Stainless steel10. Shower Head Material: Highly Visible	No Change No Change
			 8. Valve Material: SS stay open ball valve with yellow ABS push plate 9. Pipe Material: Stainless steel 10. Shower Head Material: Highly Visible Yellow ABS plastic 	No Change No Change No Change
			 8. Valve Material: SS stay open ball valve with yellow ABS push plate 9. Pipe Material: Stainless steel 10. Shower Head Material: Highly Visible Yellow ABS plastic 11. Supply Water: Drinking Water 	No Change No Change No Change No Change

p	pm	
2 p	. Sensitivity– Should be Na: 0.5 ppm, K: 0.5 pm, Li: 0.5 ppm, Ca: 15 ppm, Ba: 50 ppm	No Change
	Specificity should be less than 0.5% nterference when concentrations are equal to test ample concentrations	No Change
4	. Filter Selection should be Automatic	No Change
5	. Should have Resolution: 0.1 ppm	No Change
fc N A	. Reproducibility- hould be <1% Coefficient of Variation (CV) or 20 consecutive samples Using 10 ppm (a set as maximum standard "Curve Fitting accuracy <1% error when 3 ppm Na/K and ppm Li are set as maximum standards.	No Change
7	. Detector Should be: Silicon Photodiode	No Change
1	. Should have Calibration: Up to 05 standards er Elements with Curve Fitting Software in- uilt with Instrument.	No Change
9	. Ignition System should be: Automatic	No Change
	0. Flame Type: Should have LPG & amp; Dry bil Free Air	No Change
	1.Display:12.5mmormore,Line.lphanumeric LCD/led with Backlight	No Change
	2. Auto Flame ON / OFF Detection: Yes, Audio nd Visual Alarm	No Change
1	3. Linearity- Should be Better than 2%	No Change
	4. Gas Control: Should be Adjustable with egulator	No Change
1.	5. Atomizer should be of Axial Flow Type	No Change
C	6. Air Supply Unit: It should Consist of Air compressor, Pressure Gauge, Pressure Regulator, Moisture Filter, PU Tube (2 Meters) and Air filter with moisture absorbent catalyst	No Change
	7. Analysis Data Storage at least should be nore than 750	No Change
	8. Accessories:	No Change
	arium (Ba) Filter, Barium 1000 ppm Stock olution, Calcium (Ca) Filter, Calcium 100 ppm	No Change
S	tock Solution	No Change
	00 ml, Keypad Screen Guard, Lithium (Li) ilter, Lithium 100 ppm Stock Solution – 500 ml,	No Change
	otassium	No Change
1	00 ppm Stock Solution – 500 ml, Sodium 100	No Change

		ppm Stock Solution – 500 ml	
		Power Supply: 230VAC ±10%, 50 Hz	No Change
29	LIMS (With High Speed Internet)	1. Laboratory information management system (LIMS): Need an advance customize software for Laboratory information management system to improve the Laboratory productivity and efficiency by keeping track of data associated with sample, laboratory workflows and Instruments.	No Change
		 2. An ideal LIMS should: - An ideal LIMS should be a provision of (1) Sample Pagistration Status of sample 	2. An ideal LIMS should: - An ideal LIMS should be a provision of
		 (1) Sample Registration, Status of sample, Test Result report printing (250 Users) (2) Drug Analyst Sample Coding Distribution of sample to lab technician Review of Result Authentication of Result 	provision of (1) Sample Registration, Status of sample, Test Result report printing (300 Users) (2) Drug Analyst - Sample Coding - Distribution of sample to lab technician - Review of Result - Authentication of Result
		 (3) Lab Test – Upldoing/Filling of test result and completion of test result (First review also) 	 (3) Lab Test – Upldoing/Filling of test result and completion of test result (First review also) (4) Office In-charge (Admin users) – Monitoring of all activities of sample
		(4) Office In-charge (Admin users) – Monitoring of all activities of sample registration, testing, authentication report, printing of report and inventory management.	registration, testing, authentication report printing of report and inventory management.
		a. Sample Location and Tracking(i) Sample Location and Tracking- Current real time status of each sample, allotment of sample and uploading of test result, authentication of	No Change

1		1
	report. (ii) It should be provision to facilitate at least 300	
	user space for sample registration collection,	
	uploading of result and tracing.b. Reagent and consumables Inventory - Day to	
	day reporting for consumption of reagent and	No Change
	consumables at lab store.	No Change
	c. Instrument integration	
	(i) Instrument integration with all existing	
	equipment of lab as per the requirement of user	
	department.	
	(ii) SMS integration	No Change
	(iii) API Integration	
	(iv) PACS integration module	
	d. Development, optimization and expansion of	
	workflows:-	
	Development, Deployment and integration are	
	not only the equipment in this tender only but in	
	the future purpose. It Should be scope for	
	integration of additional equipment of the drug	
	lab like pathology, biochemistry and	
	microbiology department.	
	(a) Space required for integration to the server	No Change
	has to be provided by the supplier so that the	
	same could be arrange by the BMSICL for	
	hosting on state data center.	
	(b) Space requirement has to be communicated	
	by the developer	
	3. Modularity - Lab receiving module	No Change
	A Configuration:	
	4. Configuration:-	No Change
	(i) Cloud based server (ii) Data storage should be at least three year	No Change
	(ii) Data storage should be at least three year.5. Report and dashboard generation	Donort and
	i e	Report and dashboard
	(i) Patient Display Board, (ii) TAT Deskhoard	
	(ii)TAT Deskboard, (iii)MIS Deskboard	generation (i) Report Display
		(i) Report Display
	(iv) Report and Deskboard Generation and Propagation	Board, (ii) MIS Daskboard
	Preparation (v) Barcoding of all events/documents.	(ii) MIS Deskboard (iii) Report and
	(v) barcoung of an events/documents.	(III) Report and Deskboard
		Generation and
		Preparation
		(iv) Barcoding of all events/documents.

30 Weighing (Calibrated) Box (Calibrated) 1. Accuracy Class F2 No 30 Weighing (Calibrated) Box (Calibrated) 1. Accuracy Class F2 No 3. Construction 50kg – 20g - 2 pieces Constru- 20g - 2 Constru- 20g - 2 No 4. 10g – 1mg - 1 piece No No Shape of - Cylindrical with handle Shape or - Cylindrical with knob Shape or - Cylindrical with knob 6. 20kg to 1g - Cylindrical with knob 20g Cylindrical 1 No 7. 500-50-5mg - Pentagon No 8. 200-20-2mg - Square No 9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm No	Change Change Change ction 50g – 2 pieces Change f weight 50g drical with andle to 1g - hrical with cnob Change
30 Weighing (Calibrated) Box 1. Accuracy Class F2 No 30 (Calibrated) Box 1. Accuracy Class F2 No 2. Standard OIML R 111-1 Edition 2004 (E) No 3. Construction 50kg - 20g - 2 pieces Constru- 20g - 4. 10g - 1mg - 1 piece No 5. Shape of weight 50kg - Cylindrical with handle Shape or - Cylindrical with knob Shape or - Cylindrical with knob 6. 20kg to 1g - Cylindrical with knob 20g Cylindrical with knob 10 7. 500-50-5mg - Pentagon No 8. 200-20-2mg - Square No 9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm No	Change Change ction 50g – 2 pieces Change f weight 50g drical with andle to 1g - Irical with knob
30 Weighing (Calibrated) Box 1. Accuracy Class F2 No 2. Standard OIML R 111-1 Edition 2004 (E) No 3. Construction 50kg - 20g - 2 pieces Constru- 20g - 4. 10g - 1mg - 1 piece No 5. Shape of weight 50kg - Cylindrical with handle Shape of - Cylindrical with knob Shape of - Cylindrical with knob 6. 20kg to 1g - Cylindrical with knob 20g Cylindrical with knob 20g Cylindrical with knob 7. 500-50-5mg - Pentagon No 8. 200-20-2mg - Square No 9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm No	Change ction 50g – 2 pieces Change f weight 50g drical with andle to 1g - lrical with anob
(Calibrated)2. Standard OIML R 111-1 Edition 2004 (E)No3. Construction 50kg - 20g - 2 piecesConstru 20g -4. 10g - 1mg - 1 pieceNo5. Shape of weight 50kg - Cylindrical with handleShape or - Cylindrical with handle6. 20kg to 1g - Cylindrical with knob20g Cylindrical with knob7. 500-50-5mg - PentagonNo8. 200-20-2mg - SquareNo9. 100-10-1mg - TriangleNo10. Weight Material Stainless SteelNo11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of ChamoisNo31PRECISION BALANCE1. Dimension :225 mm X 65 mm X 200 mmNo	Change ction 50g – 2 pieces Change f weight 50g drical with andle to 1g - lrical with anob
3. Construction 50kg - 20g - 2 pieces Construction 20g - 2 pieces 4. 10g - 1mg - 1 piece No 5. Shape of weight 50kg - Cylindrical with handle Shape or - Cylindrical with handle 6. 20kg to 1g - Cylindrical with knob 20g - Cylindrical with knob 7. 500-50-5mg - Pentagon No 8. 200-20-2mg - Square No 9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm No	ction 50g – 2 pieces Change f weight 50g drical with andle to 1g - drical with chical with
4. 10g - 1mg - 1 piece 20g - 5. Shape of weight 50kg - Cylindrical with handle Shape of - Cylindrical with handle 6. 20kg to 1g - Cylindrical with knob 20g - 7. 500-50-5mg - Pentagon No 8. 200-20-2mg - Square No 9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm No	2 pieces Change F weight 50g drical with andle to 1g - Irical with anob
4. $10g - 1mg - 1$ piece No 5. Shape of weight 50kg - Cylindrical with handle Shape of - Cylindrical with handle 6. 20kg to 1g - Cylindrical with knob 20g Cylindrical with knob 7. 500-50-5mg - Pentagon No 8. 200-20-2mg - Square No 9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 12. Linearity:100 gm± 0.03 gm or better No	Change f weight 50g drical with andle to 1g - lrical with knob
5. Shape of weight 50kg - Cylindrical with handle Shape of weight 50kg - Cylindrical with handle Shape of - Cylindrical with handle 6. 20kg to 1g - Cylindrical with knob 20g 7. 500-50-5mg - Pentagon No 8. 200-20-2mg - Square No 9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 12. Linearity:100 gm± 0.03 gm or better No	f weight 50g drical with andle to 1g - drical with knob
handle- Cylinhandle- Cylin6. 20kg to 1g - Cylindrical with knob20gCylind17. 500-50-5mg - PentagonNo8. 200-20-2mg - SquareNo9. 100-10-1mg - TriangleNo10. Weight Material Stainless SteelNo11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of ChamoisNo31PRECISION BALANCE1. Dimension :225 mm X 65 mm X 200 mmNo31C. Linearity:100 gm± 0.03 gm or betterNo	drical with andle to 1g - Irical with anob
A begin bound of the second	andle to 1g - lrical with knob
6. 20kg to 1g - Cylindrical with knob20g Cylind I7. 500-50-5mg - PentagonNo8. 200-20-2mg - SquareNo9. 100-10-1mg - TriangleNo10. Weight Material Stainless SteelNo11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of ChamoisNo31PRECISION BALANCE1. Dimension :225 mm X 65 mm X 200 mmNo31C. Linearity:100 gm± 0.03 gm or betterNo	to 1g - lrical with knob
Cylind7. 500-50-5mg - PentagonNo8. 200-20-2mg - SquareNo9. 100-10-1mg - TriangleNo10. Weight Material Stainless SteelNo11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of ChamoisNo31PRECISION BALANCE1. Dimension :225 mm X 65 mm X 200 mmNo31Cultor2. Linearity:100 gm± 0.03 gm or betterNo	lrical with
31PRECISION BALANCE1.1.1.1.31PRECISION BALANCE1.1.1.1.1.1.31PRECISION BALANCE1.1.1.1.1.1.1.31PRECISION BALANCE1.1.1.1.1.1.1.1.31PRECISION BALANCE1.1.1.1.1.1.1.1.1.1.1.31PRECISION BALANCE1.1	knob
7. 500-50-5mg - PentagonNo8. 200-20-2mg - SquareNo9. 100-10-1mg - TriangleNo10. Weight Material Stainless SteelNo11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois Leather, forceps and glovesNo31PRECISION BALANCE1. Dimension :225 mm X 65 mm X 200 mm NoNo	
8. 200-20-2mg - SquareNo9. 100-10-1mg - TriangleNo10. Weight Material Stainless SteelNo11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois Leather, forceps and glovesNo31PRECISION BALANCE1. Dimension :225 mm X 65 mm X 200 mm NoNo	Change
9. 100-10-1mg - Triangle No 10. Weight Material Stainless Steel No 11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm No 2. Linearity:100 gm± 0.03 gm or better No	0
10. Weight Material Stainless SteelNo11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois Leather, forceps and glovesNo31PRECISION BALANCE1. Dimension :225 mm X 65 mm X 200 mm 2. Linearity:100 gm± 0.03 gm or betterNo	Change
11. Box Type & amp; Accessories Polished wooden box lined with velvet cloth, brushes and Piece of Chamois No 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm No 2. Linearity:100 gm± 0.03 gm or better No	Change
31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm 2. Linearity:100 gm± 0.03 gm or better No	Change
Piece of Chamois No Leather, forceps and gloves 1. Dimension :225 mm X 65 mm X 200 mm 31 PRECISION BALANCE 1. Dimension :225 mm X 65 mm X 200 mm Volume 2. Linearity:100 gm± 0.03 gm or better	
Image: Second	Change
31 PRECISION BALANCE1.Dimension :225 mm X 65 mm X 200 mmNo2.Linearity:100 gm± 0.03 gm or betterNo	
BALANCE 2. Linearity:100 gm± 0.03 gm or betterNo	Change
	Change
	Change
4. Minimum weight (USP) Typical:15 gm or No	Change
5. Readability:0.01 gmNo	Change
6. Setting time: 5 sec or Less No	Change
7. Weighing Pan Diameter: 150 mm (Approx) No	Change
	Change
	Change
	Change
	-
	Change
12. USFDA (510K) / European CE (Issued by Notified Body) approved Model should be offered.No	-

Note:- All Supplementary electrification and earthing work during installation process will be cover under the scope of work.