

Registration Excise and Prohibition Department

Vikash Bhawan, New Secretariat,

Bailey Road, Patna-01

Tender No:Excise/ChemLab/2016/02

Replies to pre-bid queries of the bidders as per the pre-bid meeting held on 21st July 2016

S. No.	Name of the Bidder/OEM	RFP Document Reference(s) (Section & Page Number(s))	RFP Document Section (s)	Content of RFP requiring Clarification(s)	Specification suggested by the bidder	Points of clarification	Replies
1	General Query	3.1.1	S. No. 1&2	Gas chromatograph with Head space, Mass Spectrometer as per the gas chromatograph Should be compatible with the gas chromatograph with head Space			Items mentioned in S.No. 1 and S. No. 2 in Section 3.1.1 Table can be considered as a combined unit Gas Chromatograph-Mass Spectrometer, specifications for which has been provided in 3.1.2
2	Anton Paar	3.1.1 Page No. 4	Refractometer	Dual Electronic Temp. Control to 100 or better	Yes but with peltier control. 60-70C is sufficient to cover wide range of samples.	"Dual Electronic Temp. Control" is brand specific which is not required in Anton Paar Instrument because of inbuilt peltier which also serves dual purpose of controlling temperature of sample and optics . Kindly remove this point as this is company specific.	Not Accepted
3	Anton Paar	3.1.6 Page No. 9	Scales	Temperature corrected RI, Brix	Temperature Peltier Controlled	Our system in peltier controlled. We actually control the desired temperature which is temperature controlled RI and better than temperature corrected RI.	Not Accepted
4	Anton Paar	3.1.6 Page No. 9	Measurement Range	1.26 - 1.70 RI, 0-95 BRIX	1.26- 1.72RI, 0-100 Brix	Anton Paar Refractometer can provide wider RI and Brix range	Not Accepted
5	Anton Paar	3.1.6 Page No. 9	Resolution	0.00001RI	0.000001 ; Brix - 0.001	Six digit resolution . Better than the specification	Not Accepted
6	Anton Paar	3.1.6 Page No. 9	Accuracy	0.00004 RI	0.00002 RI	Anton Paar refractometer can provide much better RI accuracy than desired tender specification	Not Accepted
7	Anton Paar	3.1.6 Page No. 9	Light Source	LED(life 10,00,000 measurements or better)		LED lifetime is 100000h	Not Accepted

8	Anton Paar	3.1.6 Page No. 10	Temp. Control Range	15°C - 100°C or better	4C - 85C	Anton Paar refractometers have in-built ASTM, AOAC, ICUMSA, ISO compliant methods library which means RI of wide range of samples can be measured within this temperature range. 4-85 C is sufficient for RI and brix measurement	Not Accepted
9	Anton Paar	3.1.8 Page No. 10		Measurement Range - 0 to 3 g/cm3 Resolution - 0.00001 g/cm3; Temperature 0.01oC Accuracy - +/-0.00005 g/cm3; Temperature 0.03oC Temperature range - 0-90o, (controlled via Peltier)	Measurement Range - 0 to 3 g/cm3 Sound Velocity - 1000m/s to 2000m/s Accuracy - +/-0.000005 g/cm3; 0.1m/s Temperature 0.01oC Repeatability - +/- 0.000001 g/cm3; Tempaerature 0.001C Temperature range - 0-70C (controlled via Peltier)	Density measuring range same but can also measure soud velocity with better accuracy and repeatability at better temperature precision . Sound velocity is also important for various samples with high concentration which is an added advantage .	Not Accepted
10	Anton Paar	3.1.8 Page No. 11		Temperature compensation.	Temperature is peltier controlled	Peltier Controlled Temperature which is better than temperature compensation . We actually control the desired measuring temperature with peltier.	Not Accepted
11	Anton Paar	3.1.8 Page No. 11		Clearly visible measurement cell with video view option.	Traceability : Real time Imaging & recording of U-tube filling process with permanent on screen display and automatic storage of images which should be integrated in the final measurement report	Better than only video option. It gives racebility and documentation .	Not Accepted
12	Anton Paar			New suggestion	Automatic Bubble Detection: Operator Independent bubble detection system based on highly accurate evaluations of the oscillation patterns using high-precision optical pickups.	Instrument gives a warning if any bubbles are there. It is an important feature to have error free data.	As per RFP
13	Anton Paar			New suggestion	Density calibration/Adjustment: The Instrument should require one single calibration / adjustment for the whole temperature range for quick performance of measurements without need of multi-temperature adjustments.	User doesn't require to calibrate instrument at different temperature . Single calibration is sufficient for measurement.	As per RFP

14	Anton Paar			New suggestion	Viscosity Correction: The Instrument should automatically correct viscosity influences to obtain accurate and precise true density results over the entire density measurement range and not in parts of the density range.	This is an important feature because different samples have different viscosity. Viscosity correction is required	As per RFP
15	Anton Paar			New suggestion	Concentration Measurements: The Density meter should have the facility to input complex Concentration versus density curves and then use the curves to directly evaluate concentration of binary solutions/mixtures	Advantage for data measurement .	As per RFP
16	Anton Paar			New suggestion	Ambient Pressure Correction: The Instrument should have a built-in Pressure sensor for automatically determining the ambient air pressure & correct the density measurements influenced by ambient pressure variations.	Important feature to avoid pressure variations.	As per RFP
17	Merck	3.1.9 Page No. 11		Produce water for microbiology purpose, physical testing/sterilization /hygienic/temperature control. Produces purified water that meets or exceeds CAP, ASTM, NCCLS, BS from portable tap water.		Electro Deionization -With Carbon Beads at cathode and which doesn't required pre softening.with Mix Bed resins should be in sequence with: Pretreatment cartridge- Pretreatment pack contains silver-impregnated activated carbon, which prevents the proliferation of bacteria present in tap water; antiscaling compounds, 0.5 Micron filter and RFID tag, Reverse Osmosis Module with 50 % recovery & Conductivity meter before and after RO, Softener, RS-232 Port,WHO,EC, EPA and ISO	Not Accepted
18	Merck	3.1.9 Page No. 11		g) TOC-< 25 ppb		TOC< 30 ppb	Not Accepted
19	Merck	3.1.9 Page No. 11		h) Bacteria levels-<1 cfu/ml for UV systems		Bacteria levels-< 0.1 cfu/ml for UV systems	Not Accepted
20	Merck	3.1.9 Page No. 11		Total chlorine- :<5ppm		Total chlorine- :<3ppm	Not Accepted

21	Merck	3.1.10 Page No. 12		For visualization of test objects under UV tubes having long wavelength (365nm) and short wavelengths (254nm) as desired. A fluorescent tube should be fitted to the unit for day light visualization. Supplied with three tubes to work on 220/230 volts A.C.		<p>Final Filters to be indicated as options: Ultrapure Water (Type 1) Flow Rate (L/min)..... 0.05 to 1.5 (Programmable flowrate) Ultrapure Water Resistivity (MΩ•cm at 25°C).....18.2 Microorganisms (cfu/mL).....<0.1 Particulates < 0.22 μm(/ mL).....< 1 Pyrogen Levels (EU/mL)<0.001 RNase Level (ng/mL)< 0.01 DNase Level (pg/μL)< 4 TOC (ppb)< 5 VOC filter.....To remove volatile organic compound EDS Polisher.....Water for endocrine disrupter experiments</p>	Not Accepted
22	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	Fast quadrupole scanning, upto 20,000u/s.	Heated Quadrupole 6000u/s or better	<p>The main function of a GC-MS/MS is as a quantitative tool in the MS/MS mode. A scan speed of 2000 amu/s is sufficient as it does not affect the sensitivity of the analysis. The number of scans across a peak defines the peak shape but beyond a limit, the noise level also increases severely affecting the sensitivity. We offer a maximum scan speed of 6250 amu/s which is far more than that required for any analysis. The Heated Quadrupole do not allow condensation/cold spotting of hot ions coming from Ion source. The cold spots/condensation can reduce number of ions reaching to the detector. This reduces the sensitivity of the system.</p>	"Fast quadrupole scanning, upto 20,000u/s." to be read as "Fast quadrupole scanning, upto 10,000u/s."

23	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	High speed scanning rate: 20,000u/s (Q3 scan)	High speed scanning rate: 6,000u/s or Better (Q3 scan)	The main function of a GC-MS/MS is as a quantitative tool in the MS/MS mode. A scan speed of 2000 amu/s is sufficient as it does not affect the sensitivity of the analysis. The number of scans across a peak defines the peak shape but beyond a limit, the noise level also increases severely affecting the sensitivity. We offer a maximum scan speed of 6250 amu/s which is far more than that required for any analysis	Same as Above
24	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	Maximum MRM speed:300 MRMs/Sec or better	maximum MRM speed >= 600 MRMs/sec	Higher MRM speed better for better sensitivity, accuracy.	Not Accepted
25	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	EI Scan sensitivity 1pg octafluoronaphthalene m/z 272 S/N≥ 600	EI Scan sensitivity 1pg octafluoronaphthalene m/z 272 S/N: 300:1	EI mode sensitivity: 300: 1 for 1 pg OFN. GC-MS/MS is used as a quantitative tool for trace level analysis in complex matrices in the MRM mode (MS/MS mode) and not in the scan mode. The sensitivity in the scan mode is only indicative and the one which is of importance is the sensitivity in MRM mode which you have already specified as 3000:1 in your specifications. In fact, nowadays it is more important to specify the Instrument Detection Limit (IDL), which is a statistically derived value at 99% confidence from the area precision of 8 consecutive injections of a known concentration. Agilent instrument gives an MRM IDL limit of 4 fg or less of OFN for a 1uL injection of 10fg/uL OFN standard, which is the best in the industry.	Following can be considered as deleted " EI Scan sensitivity 1pg octafluoronaphthalene m/z 272 S/N≥ 600 MRM sensitivity 100fg octafluoronaphthalene m/z 272→ 241 S/N≥ 3000 •CI MRM mode 100fg benzophenone d10 m/z 193→ 110 S/N≥ 1500(reagent gas CH4) NCI SIM mode 10fg octafluoronaphthalene m/z 272 S/N≥ 400(reagent gas CH4)"

26	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	MRM sensitivity 100fg octafluoronaphthalene m /z 272→ 241S/N≥ 3000	MRM sensitivity 100fg octafluoronaphthalene m/z 272 241 S/N 7000:1 or better using 30m capillary column	Sensitivity for quantitation for an instrument is the most important criteria. There are instruments available in the market which give much better sensitivity than that asked for in the tender specs. Moreover, IDL is a better way to specify sensitivity.	Following can be considered as deleted " EI Scan sensitivity 1pg octafluoronaphthalene m/z 272 S/N≥ 600 MRM sensitivity 100fg octafluoronaphthalene m/z 272→ 241 S/N≥ 3000 •CI MRM mode 100fg benzophenone d10 m/z 193→ 110 S/N≥ 1500(reagent gas CH4) NCI SIM mode 10fg octafluoronaphthalene m/z 272 S/N≥ 400(reagent gas CH4)"
27	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	CIMRMmode 100fgbenzophenone d10 m/z 193 110 S/N 1500(reagent gas CH ₄)	Please delete it.	You asked for only EI.	Following can be considered as deleted " EI Scan sensitivity 1pg octafluoronaphthalene m/z 272 S/N≥ 600 MRM sensitivity 100fg octafluoronaphthalene m/z 272→ 241 S/N≥ 3000 •CI MRM mode 100fg benzophenone d10 m/z 193→ 110 S/N≥ 1500(reagent gas CH4) NCI SIM mode 10fg octafluoronaphthalene m/z 272 S/N≥ 400(reagent gas CH4)"

28	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	NCI SIM mode 10fg octafluoronaphthalenem/z 272 S/N 400(reagent gas CH ₄)	Please delete it.	You asked for only EI.	Following can be considered as deleted " EI Scan sensitivity 1pg octafluoronaphthalene m/z 272 S/N≥ 600 MRM sensitivity 100fg octafluoronaphthalene m/z 272→ 241 S/N≥ 3000 •CI MRM mode 100fg benzophenone d10 m/z 193→ 110 S/N≥ 1500(reagent gas CH ₄) NCI SIM mode 10fg octafluoronaphthalene m/z 272 S/N≥ 400(reagent gas CH ₄)"
29	Swati Safesecure Equipments Pvt. Ltd.	3.1.2	General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system:	IQ/OQ/PQ functions	Delete it	It is required for Pharma analysis.	Not Accepted
30	Swati Safesecure Equipments Pvt. Ltd.	3.1.3	General Specification - Double Beam Scanning UV-VIS Spectrophotometer	Variable Band width: from 0.5, 1.0, 2.0 & 4.0 or better	Variable from 1 nm to 4 nm or better.	Routinely analysis done with 1 nm bandwidth or more. Less bandwidth can affect sensitivity.	Not Accepted
31	Swati Safesecure Equipments Pvt. Ltd.	3.1.1	S. No. 3	Double monochromator	Single monochromator system	Single monochromator gives very good sensitivity/analysis results for these applications.	Accepted in 31.1 In the item list S. No. 3 "Double Monochromator" stands corrected as "Single Monochromator"
32	Swati Safesecure Equipments Pvt. Ltd.	3.1.3 and 3.1.6	General Specification - Double Beam Scanning UV-VIS Spectrophotometer, General Specifications Refractometer	21 CFR part II compliance. IQ/OQ/PQ	Delete it	It is required for Pharma analysis.	Not Accepted

33	Zeal India Chemicals	3.1.12	Technical Specifications - Microscope	<p>With 4 position objective nosepiece turret. Pre-centered & pre-focused abbe condenser 0.90/1.25 oil. LED illumination, 6000k temp, 25000 h lifetime or better. Time delay illumination shut off facility. Objective PLAN 4 ×, 10×, 40×& 100× oil. Earpiece pair 10× with pointer with digital Eyepiece camera 1.3 megapixel for image capturing. Image Analysis System Consisting Coolscope Camera 3CT. Sensor Type ½" CMOS. Pixels 3.15mp. A/D conversion: 10 bit. Dynamic Range: 58 db. Max Exposure: 3sec. Max Frame Rate: 35fps. Cooling No. digital interface: Firewire. Optical interface: 0.5× C-MOUNT. Capture Pro For Windows & mac. Odd Adaptor for camera to microscope. Software Camera Control, Measurement Z axis staking (3D).</p>	<p>Proposed Specification - Microscope</p> <ol style="list-style-type: none"> 1. Stand type - Materials microscope in upright design. One-piece metal housing for high stability and precision. Handle on the rear side for simple, secure storage of the instrument. Cable holder for increased security at the workplace. 2. 4-place Nosepiece 3. Stage – Integrated XY attachable mechanical stage. 4. Focus drive - 2-stage, coarse and fine focus. The focus mechanism is made of brass for the highest accuracy and durability. 5. 30 degree Binocular Tube with locking mechanism for eyepieces 6. Objective lenses PLAN EPI 5x/0.12, 10x/0.25, 20x/0.40 and 50x/0.75 7. Illumination - Reflected light axis for Bright Field and Oblique Contrast and Transmitted light. 8. High-power LEDs with 20 000 hour service lifetime, integrated an optical discharge 	<p>Illustrative and better specification for the desired purpose.</p>	<p>Not Accepted, Specifications as mentioned in RFP are applicable.</p>
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