

e-Tender No. 49(AS)/2018 to 54(AS)/2018 dated 22.05.2018

for supply, installation and commissioning of Liquid Chromatograph Mass Spectrometer-Mass Spectrometer (LCMS-MS), Gas chromatograph Mass Spectrometer (GCMS), Pyrolysis Gas Chromatograph Mass Spectrometer (Pyrolysis GCMS), High Performance Thin Layer Chromatograph-Mass Spectrometer (HPTLC-MS), Thermo Gravimetric Analyzer (TGA), Adsorbable Organic Halogen Analyser (AOX) respectively for Laboratories of Central Board of Indirect Taxes & Customs

**Minutes and clarifications of pre-bid conference held on 15.06.2018**

F. No. 441/17/DL(AS)/2018/Group-VI

Dated: 26.06.2018

**Subject:** e-tender Notices for supply, installation and commissioning of (i) Liquid Chromatograph Mass Spectrometer-Mass Spectrometer (LCMS-MS) [e-tender no. 49(AS)/2018], (ii) Gas Chromatograph Mass Spectrometer (GCMS) [e-tender no. 50(AS)/2018], (iii) Pyrolysis Gas Chromatograph Mass Spectrometer (Pyrolysis GCMS) [e-tender no. 51(AS)/2018], (iv) High Performance Thin Layer Chromatograph - Mass Spectrometer (HPTLC-MS) [e-tender no. 52(AS)/2018], (v) Thermo Gravimetric Analyzer (TGA) [e-tender no. 53(AS)/2018], (vi) Adsorbable Organic Halogen Analyser (AOX) [e-tender no. 54(AS)/2018] for Laboratories of Central Board of Indirect Taxes & Customs - reg.

**Venue:** Conference Hall, Central Revenues Control Laboratory, Pusa, New Delhi

**Date and time:** 15.06.2018 at 14.30 hours.

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A Pre-bid Conference was held on 15.06.2018 at 14.30 hours in the Conference Hall of Central Revenues Control Laboratory, Pusa, New Delhi to provide clarifications on the queries raised by the prospective tenderers pertaining to e-tenders mentioned above. The Pre-bid Conference was chaired by Sh. Sandeep Prakash, Commissioner, Directorate of Logistics, New Delhi and the following officials attended the meeting:

Sl. No.	Name (S/Sh./Dr./Ms./Smt.)	Organization
1.	D. B. Arora	Additonal Commissioner, DoL, New Delhi
2.	T. A. Sreenivasa Rao	Joint Director, CRCL, New Delhi
3.	V. Suresh	Joint Director, Customs Laboratory, Chennai
4.	Ashok Aswal	Deputy Commissioner, Directorate of Logistics
5.	Gyanendra Saxena	Chemical Examiner Gr. II, CRCL, New Delhi
6.	J. K. Sharma	Superintendent, Directorate of Logistics

2. Representatives of the following companies attended the Pre Bid Conference:-

Sl. No.	Name (S/Sh./Dr./Ms)	Represented by
1.	Anant Lohar	Shimadzu Analytical (India) Pvt. Ltd., Mumbai
2.	Rahul Dev Sharma	Spinco Biotech Pvt Ltd., Noida
3.	Bipendra Singh	Spinco Biotech Pvt Ltd., Noida
4.	S.R. Manivannan	Spinco Biotech Pvt Ltd., Noida

5.	Rakesh Ranjan	Anchrom, Mumbai
6.	Dinesh Saini	Thermo Fisher Scientific India Pvt. Ltd., Noida
7.	Lalit Chauhan	Verder Scientific Private Limited, New Delhi
8.	R.V. Subba Rao	Verder Scientific Private Limited, New Delhi
9.	Sunny Wadhwa	Verder Scientific Private Limited, New Delhi
10.	Gaurav Singh	Skytech Systems (India) Pvt. Ltd., New Delhi
11.	Gopal Kumar	Elico Marketing Pvt. Ltd., Ghaziabad
12.	Rohan Kumar	AJ Instruments India Pvt. Ltd., Delhi
13.	Durgesh Dhir	Sciex- A Division of DHR Holding India Pvt. Ltd., Gurugram
14.	Brijesh Pandey	Sciex- A Division of DHR Holding India Pvt. Ltd., Gurugram
15.	Lalit Kumar	Waters India Pvt. Ltd., New Delhi
16.	Vishal K Khatavkar	Waters India Pvt. Ltd., New Delhi
17.	Amit Sikka	Toshvin Analytical Pvt. Ltd., New Delhi
18.	Asit Kumar Dutta	Toshvin Analytical Pvt. Ltd., New Delhi
19.	Sudip Neogy	Hydrocarbon Solutions (India) Pvt. Ltd., Bangalore

3.1 The Commissioner (Logistics) welcomed all the participants and recalled that as per clause 2.9.1 of Section II of Tender document prospective tenderers seeking clarification on the tender document were required to submit their queries online by 07.06.2018 upto 1500 hours. Queries received were to be answered in the pre-bid conference. It was informed that queries had been received through online mode from M/s Thermo Fisher Scientific India Pvt. Ltd., Mumbai for e-tender nos. 49(AS)/2018, 50(AS)/2018, 51(AS)/2018 and 52(AS)/2018, M/s. Hydrocarbon Solutions (India) Pvt. Ltd., Bangalore for e-tender nos. 49(AS)/2018, 50(AS)/2018 and 51(AS)/2018 and M/s Anchrom Enterprises (I) Pvt. Ltd. for e-tender No. 52(AS)/2018.

3.2 Additional queries were received from the other participants namely, M/s Sciex -Division of DHR Holding India Pvt. Ltd., Gurgaon, M/s Toshvin Analytical Pvt. Ltd New Delhi, M/s Waters (India) Pvt. Ltd. New Delhi and M/s Spinco Biotech Pvt. Ltd. Noida, in written format.

3.3 All queries received online and during pre-bid conference were taken up for clarification and answered one by one by the official side. Parties were advised that any further queries may be given in written format after the pre-bid conference, which would be examined and clarifications uploaded.

3.4 Queries received alongwith the replies/ clarifications have been consolidated in a tabular form and enclosed at **Annexure-A**. The respective Tender conditions stand modified to the extent mentioned therein, wherever applicable.

4. Commissioner, Directorate of Logistics stated that it is the endeavor of this Directorate to have maximum participation in this tender and accordingly, exhorted all the present participants to submit their most competitive bids.

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## GNIT e-Tender No. 49(AS)/2018 to 54(AS)/2018 dated 22.05.2018

Procurement of Three (03) units of Liquid Chromatograph Mass Spectrometer -Mass Spectrometer (LCMS-MS), Three (03) units of Gas Chromatograph Mass Spectrometer (GCMS), Two (02) units of Pyrolysis Gas Chromatograph Mass Spectrometer (Pyrolysis GCMS), Three (03) units of High Performance Thin Layer Chromatograph - Mass Spectrometer (HPTLC-MS), Three (03) units of Thermo Gravimetric Analyzer (TGA), Three (03) units of Adsorbable Organic Halogen Analyser (AOX) for Laboratories of Central Board of Indirect Taxes & Customs

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
e-Tender No. 49(AS)/2018 dated 22.05.2018: Liquid Chromatograph Mass Spectrometer-Mass Spectrometer (LCMS-MS)				
Hydrocarbon Solutions (India) Pvt. Ltd.				
<b>Technical Clarifications</b>				
1	Annexure-1 Sl. No. I (page no. 68)	<b>Solvent Delivery system:</b> 8. Programmable gradient profile with more than 5-types of gradient program.	Kindly amend this clause to read as "Gradient profile with Linear Curve"; as Agilent cannot provide 5 types of gradient.	Tender condition remain unchanged.
2	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> ESI scan sensitivity (negative ion): 1 pg/ul of Chloramphenicol on column should give 50,000:1 signal to noise ratio or higher for transition of ion at m/z 321 to ion at m/z 152 in MRM/SRM mode.	Request to change the "Negative sensitivity to 30000:1 for 1pg of Chloramphenicol on column"; as Agilent provides upto 30000: 1 for ESI scan sensitivity (negative ion).	Tender condition remain unchanged.
3	Annexure-1 Sl. No. I (page no. 68)	<b>Solvent Delivery system:</b> 2. Flow accuracy : $\pm 0.1$ % for entire flow range	Request to amend the specifications to read as " $\pm 1.0$ % or 10ul/min, whichever is greater"; as Agilent provides the above accuracy.	Flow accuracy may be read as " $\pm 1.0$ % for entire flow range".
Thermo Fisher Scientific India Pvt. Ltd.				
<b>Technical Clarifications</b>				

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Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
4	Annexure-1 Sl. No. I (page no. 68)	<b>Solvent Delivery system:</b> 7. System delay volume :< 400 µl or below.	We propose, it should be 690 micro litre or below	Tender condition remain unchanged.
5	Annexure-1 Sl. No. I (page no. 68)	<b>Solvent Delivery system:</b> 8. Programmable gradient profile with more than 5-types of gradient program.	We propose, it should be removed because not mentioned in our product specifications.	Tender condition remain unchanged.
6	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b>  Ion source: Dedicated ESI and APCI with desolvation temperature more than 300°C.	We propose, it should be change to 550°C as higher temperature in Ion source leads towards faster desolvation.	Tender condition remain unchanged.
<b>SCIEX - A Division of DHR Holding India Pvt. Ltd.</b>				
<b>Technical Clarifications</b>				
7	Annexure-1 Sl. No. I (page no. 68)	<b>Solvent Delivery system</b> Operating pressure : 0 to 15000 psi or more	0 to 18000 psi or more	Tender condition remain unchanged.
8	Annexure-1 Sl. No. I (page no. 68)	<b>Solvent Delivery system:</b> Flow accuracy : ± 0.1 % for entire flow range	± 1 % for entire flow range	Refer to clarifications provided at S.No.3.
9	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b>  Scan speed 15,000 units per second or better	Please change it to 12,000 or better.	Tender condition remain unchanged.
10	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b>  Polarity switching: less than 25millisec.	Required Spec: Polarity switching: less than 50 milli sec or less.	Tender condition remain unchanged.
11	Annexure-1 Sl. No. VII (page no. 68)	<b>Accessories and column</b>  Suitable branded Nitrogen gas generator	<b>Accessories and column</b>  Suitable branded Nitrogen gas generator with	Tender condition remain unchanged.

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Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
		with built-in compressor of capacity 32 lit/ min or better.	built-in compressor of suitable flow rate.	
<b>Waters (India) Pvt. Ltd.</b>				
<b>Technical Clarifications</b>				
12	Annexure-1 Sl. No. II (page no. 68)	<b>Auto Sampler</b> 100 vials of 1.5 ml capacity or more	90 vials of 1.5 ml capacity or more	Instead of 100 vials may be amended as "90 vials or more".
13	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> Scan speed 15,000 units per second or better	<b>MS SPECIFICATION</b> Scan speed 20,000 units per second or better	Tender condition remain unchanged.
14	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> Ion source: Dedicated ESI and APCI with desolvation temperature more than 300°C.	<b>MS SPECIFICATION</b> Ion source: Dedicated ESI and APCI with desolvation temperature of 500°C or better.	Tender condition remain unchanged.
15	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> ESI scan sensitivity (negative ion): 1 pg/ul of chloramphenicol on column should give 50,000:1 signal to noise ratio or higher for transition of ion at m/z 321 to ion at m/z 152 in MRM/SRM mode.	ESI scan sensitivity (negative ion): 1 pg/ul of chloramphenicol on column should give 100,000:1 signal to noise ratio or higher for transition of ion at m/z 321 to ion at m/z 152 in MRM/SRM mode.	Tender condition remain unchanged.
<b>Spinco Biotech Pvt. Ltd.</b>				
<b>Technical Clarifications</b>				

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
16	Annexure-1 Sl. No. I (page no. 68)	<b>Solvent Delivery system:</b> Flow accuracy : $\pm 0.1$ % for entire flow range	<b>Solvent Delivery system:</b> Flow accuracy : $\pm 1$ % for entire flow range. Remark: Flow accuracy directly depend on the plunger/piston stroke volume. The UHPLC pumps should deliver the volume correctly or precisely to the set value. Flow accuracy of 0.1% specification floated in the tender is corresponding to the entire flow range of 0.01 ml/min to 2 ml/min. Flow accuracy of 0.1% at 0.01 ml/min corresponds to 100 nano l/min of correctness. There are no standard guidelines or established protocols to verify such low volume accuracy onsite. Our UHPLC pump plunger stroke volume of 10 $\mu$ l, with accuracy of $\pm 1$ %, which is industries best and offered by all the leading vendors. All the vendors offers $\pm 1$ % flow accuracy using the plunger capacity of 10 $\mu$ l for its confirmatory purposes.	Refer to clarifications provided at S. No. 3.
<b>Commercial Clarifications</b>				
17	Clause No. 3.5 Section III Page No. 20	<b>Performance Security</b>  Within twenty one days after the issue of notification of award by the Purchaser.	Kindly amend to within 35 days after the issue of notification of award by the Purchaser.	Tender requirement stays.
e-Tender No. 50(AS)/2018 dated 22.05.2018: Gas Chromatograph Mass Spectrometer (GCMS)				
Thermo Fisher Scientific India Pvt. Ltd.				
<b>Technical Clarifications</b>				
18	Annexure-1 (page no. 68)	The basic GC system should have two injector ports	Kindly clarify the number of injector required.	Tender specification is amply clear.
19	Annexure-1	The instrument should have back flush	Kindly clarify whether back flush is needed for two	May be included after back flush

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
	(page no. 68)	facility	injectors for two injector port.	facility " for one injector "
20	Annexure-1 Sl. No II (page No. 68)	<b>Pneumatics:</b>  Programmable Electronic control/EPC/AFC for all injectors, detectors as well as for auxiliary channels with single point control via software.	Kindly add IEC also which is provided by us and same as EPC/AFC	Tender condition remain unchanged.
21	Annexure-1 Sl. No III (page No. 68)	<b>Injectors.</b>  Split/ Split less Capillary Injector.	Kindly clarify the number of injectors required.	Tender specification is amply clear.
22	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> It should be possible to inject the samples directly into the mass spectrometer without passing through GC column for both EI & CI mode.	This point to be removed since it is not advisable to inject sample directly into MS as it can contaminate the quadrupole any compound can be injected through the injector using blank column to avoid column separation	Tender condition remain unchanged.
23	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> It should have branded turbo molecular pump to maintain vacuum across the mass analyser area.	Please amend it should have branded turbo molecular pump with capacity >260L to maintain vacuum across the mass analyser area.	Tender condition remain unchanged.
24	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> EI Full scan sensitivity 1 pg OFN to produce signal to noise ratio 1500:1 for m/z 272.	EI Full scan sensitivity 1 pg OFN to produce signal to noise ratio 1500 :1 for m/z 272 when scanning from 50 to300 amu.	Tender condition remain unchanged.
25	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b> Transfer line temperature up to 350°C.	Transfer line temperature up to 400°C.	Tender condition remain unchanged.
<b>Commercial Clarifications</b>				

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Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
26		CCAMC and warranty need to cover consumables.	Kindly clarify which consumables are need to be included in the warranty & CCAMC offer. Consumables like Chemicals, Solvents, Column, Gases for sample preparation and analysis shall not be included in CCAMC and warranty.	Consumables required for main equipment as well as for bought out items should be covered under the referred clause. However, printer papers/ cartridges, gas refill will be arranged by the Purchaser.
<b>Hydrocarbon Solutions (India) Pvt. Ltd.</b>				
<b>Technical Clarifications</b>				
27	Annexure-1 Sl. No. IV (page no. 68)	<b>MS SPECIFICATION</b>  It should be possible to inject the samples directly into the mass spectrometer without passing through GC column for both EI & CI mode.	Kindly provide the detailed specifications or more information on the hardware that you desire to be quoted by us to meet this requirement.	Tender specification is amply clear.
28	Annexure-1 Sl. No. VIII (page no. 69)		Kindly add the following item in the tender specification as it is missing and essential for CI mode analysis:- "Gas cylinder with regulator for methane or isobutene for CI mode analysis."	May include "Gas cylinder with regulator for methane or isobutene gas."
<b>Toshvin Analytical Pvt Ltd.</b>				
<b>Technical Clarifications</b>				
29	Annexure-1 Sl. No. IV (page no. 68)		<b>MS SPECIFICATION</b> We hereby confirm that all manufacturers has accessory available "to inject the sample directly into the mass spectrometer without passing through GC column for both EI & CI mode."	No query raised.

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Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
			Henceforth it should not be deleted or removed or change, as it will dilute the same with substitute/cheaper option available to inject sample in MS passing through GC column.	
<b>e-Tender No. 51(AS)/2018 dated 22.05.2018: Pyrolysis Gas Chromatograph Mass Spectrometer (Pyrolysis GCMS)</b>				
<b>Thermo Fisher Scientific India Pvt. Ltd.</b>				
<b><u>Technical Clarifications</u></b>				
30	Annexure-1 (page no. 68)	The instrument should have back flush facility.	The instrument should have back flush facility for both the injection port as two numbers of detector asked in the specifications.	May be included after back flush facility " for two injection port."
31	Annexure-1 Sl. No II (page no. 68)	<b>Pneumatics</b>  Programmable Electronic control/ EPC/ AFC for all injectors, detectors as well as for auxiliary channels with single point control via software	Kindly add IEC also which is provided by us and same as EPC/ AFC	Tender condition remain unchanged.
32	Annexure-1 Sl. No IV (page no. 68)	<b>Auto sampler</b>  Sample injection 10 nl (with 1 µl syringe) to 50 µl (with 100 µl syringe)	<b>Auto sampler</b>  Sample injection 10 nl (with 0.5/1 µl syringe) to 5 µl (with 10 µl syringe)	May be read as "Sample injection 100 nl to 50 µl".
33	Annexure-1 Sl. No. VI (page no. 68)	<b>MS SPECIFICATION</b>  It should have branded turbo molecular pump to maintain vacuum across the mass analyser area.	Please amend it should have branded turbo molecular pump with capacity >260L to maintain vacuum across the mass analyser area.	Tender condition remain unchanged.
34	Annexure-1	<b>MS SPECIFICATION</b>	Transfer line temperature up to 400C	Tender condition remain

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
	Sl. No. VI (page no. 68)	Transfer line temperature up to 350°C.		unchanged.
35	Annexure-1 Sl. No. VI (page no. 68)	<b>MS SPECIFICATION</b>  EI scan sensitivity 1 pg OFN to produce signal to noise ratio 1500:1 for m/z 272.	<ul style="list-style-type: none"> <li>• Please EI scan sensitivity 1 pg OFN to produce signal to noise ratio 2000:1 for m/z 272</li> <li>• EI full scan sensitivity 1 pg OFN to produce signal to noise ratio 1500:1 for m/z 272 when scanning from 50 to 300 amu.</li> </ul>	Tender condition remain unchanged.
36	Annexure-1 Sl. No. IV (page no. 68)	<b>Auto sampler:</b>  Sample injection 10 nl (with 1 µl syringe) to 50 µl (with 100 µl syringe)	Please amend/ remove the size of syringe ie. (sample injection 10nl (remove syringe) to 50µl (remove the size of syringe) Since this injection can be done with other syringe size as well.	Pl refer to reply at S.No.32.
37	Annexure-1 Sl. No. VIII (page no. 69)	<b>PYROLYSER ATTACHMENT</b>  <b>Performance using MS detector</b>  Reproducibility of programs RSD of the peak area ratio of polystyrene trimer (SSS) and methyl stearate (Me-Ste): ≤2%	<ul style="list-style-type: none"> <li>• Please remove this point it is specific to a particular brand.</li> <li>• For RSD of the peak area ratio please include compound Styrene/isoprene copolymer/ Nylon 6.6 Polyethylene (Low density) ≤ 2%.</li> </ul>	Tender specification may be reads as "RSD of the peak area ratio of polystyrene trimer (SSS) and methyl stearate (Me-Ste)/ compound Styrene / isoprene copolymer/ Nylon 6.6 Polyethylene (Low density) : ≤2%
38	Annexure-1 Sl. No. VIII (page no. 69)	<b>PYROLYSER ATTACHMENT</b>  <b>Performance using MS detector</b>  RSD of the max decomposition temperature for Polystyrene: ≤0.3%	For RSD of max decomposition temp. please include compound Styrene/isoprene copolymer/ Nylon 6.6 Polyethylene (Low density) ≤ 0.3%	Tender specification may be reads as "RSD of the max decomposition temperature for Polystyrene / compound styrene/isoprene copolymer/ Nylon 6.6 Polyethylene (Low density) ≤ 0.3%."

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
39	Annexure-1 Sl. No. VIII (page no. 69)	<b>Furnace and sampling unit</b>  Pyrolyzer furnace	Please amend or add as Or The Pyrolyzer will be a resistively heated element utilizing a coiled platinum filament for variable temperature control.	Tender condition remain unchanged.
40	Annexure-1 Sl. No. VIII (page no. 69)	<b>PYROLYSER ATTACHMENT</b>  Pyrolysis tube material  Quartz	<ul style="list-style-type: none"> <li>• Please amend or add as Or coiled platinum filament – Best for samples held in reusable quartz tubes or boats.</li> <li>• Quartz tube with heating by coiled platinum filament.</li> </ul>	Tender condition remain unchanged.
41	Annexure-1 Sl. No. VIII (page no. 69)	<b>Temperature control range</b>  Ambient to 1050°C (1°C step)	Please amend as Pyrolysis Temperature selectable in 1 °C increments from ambient to 1400 °C.	Tender condition remain unchanged.
42	Annexure-1 Sl. No. VIII (page no. 69)	<b>Heating rate</b>  600°C/min (1°C step )	Heating Rate: adjustable from 0.01 °C per minute to 20,000 °C per second.	Tender condition remain unchanged.
43	Annexure-1 Sl. No. VIII (page no. 69)	<b>Cooling method</b>  Forced air cooling by nitrogen or compressed air.	Please amend or add “Electrical cooling by fan along with nitrogen or compressed air.”	Tender specification may be read as “Forced air cooling by nitrogen or compressed air or any other suitable method.”
44	Annexure-1 Sl. No. VIII (page no. 69)	<b>Cooling time</b>  Within 10 min (800°C down to 50°C, cooling gas pressure: 500kPa)	<ul style="list-style-type: none"> <li>• Please amend as Not applicable if electrical cooling option quoted.</li> <li>• Kindly remove cooling gas pressure as it is not required for electrical cooling.</li> </ul>	Tender specification “cooling gas pressure: 500kPa” stands deleted.
45	Annexure-1 Sl. No. VIII (page no. 70)	<b>Interface Unit (ITF) Temperature control range and stability</b>  40 up to 450°C (1°C step) ,  ±0.1°C	<ul style="list-style-type: none"> <li>• Please amend as Temperature programmable Interface Settable in 1 °C increments to 350 °C ; Programmable at 1 °C/min. Increments to 100 °C/min.</li> <li>• Kindly amend it up to 350 °C (1 °C step)</li> </ul>	Tender specification may be read as 40 to 350 °C (1 °C step) or better.

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
46	Annexure-1 Sl. No. VIII (page no. 69)	<b>PYROLYSER ATTACHMENT</b>  Sampler: -Double-shot sampler for Double-Shot and Single-Shot analyses Liquid sampler regular 10 µL micro syringe	Temperature programming of the pyro probe shall allow up to 8 step during analysis.	Tender condition remain unchanged.
47	Annexure-1 Sl. No. VIII (page no. 70)	<b>Sample cup</b>  Eco cup SF (small), Max capacity: 50 µL (deactivated stainless steel)	<ul style="list-style-type: none"> <li>• Please amend or add Quartz Tubes or boats.</li> <li>• Kindly remove the capacity as it is specific to one vendor. Please mention it as a standard cup size. For both eco cup SF and eco cup LF.</li> </ul>	May be reads as "Eco cup (Small): standard size, Eco cup (Large): Standard size."
48	Annexure-1 Sl. No. VIII (page no. 70)	<b>Temperature controller Functions</b>  SGL/DBL, Direct EGA, Heart-Cut EGA, ITF temp, Method File, Temp Monitor, Maintenance, control of Selective Sampler, MicroJet Cryo-Trap, temperature calibration, and Carrier Gas Selector	<ul style="list-style-type: none"> <li>• Specific to a particular Brand hence request you to remove it.</li> <li>• Please remove this line as it is specific to one manufacturer, we don't use MicrojetCryo-Trap where require additionally cryogenic system where we use electrically temperature controlled.</li> </ul>	"MicroJet Cryo-Trap" may be reads as "MicroJet Cryo-Trap or suitable accessory."
49	Annexure-1 Sl. No. VIII (page no. 70)	<b>PYROLYSER ATTACHMENT</b>  <b>Standard accessories</b>  Quartz pyrolysis tube: 2 Nos.	Quartz pyrolysis tube or coil rod.	May be included "or coil rod."
50	Annexure-1 Sl. No. VIII (page no. 70)	<b>PYROLYSER ATTACHMENT</b>  <b>Standard accessories</b>  ITF needle N: 2 Nos.(with one ITF union)	It is manufacture specific its not required.	May be included "or suitable accessories."
51	Annexure-1 Sl. No. VIII	<b>PYROLYSER ATTACHMENT</b>	Kindly mention standard cup 100 qty.	May be amended to "Eco cups (Small): standard size : 20 Nos.,

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Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
	(page no. 70)	<b>Standard accessories</b> Eco cup: Eco cup (50 µL)- 20 Nos., Eco cup LF (80 µL)- 20 Nos.		Eco cups (Large): standard size : 20 Nos."
52	Annexure-1 Sl. No. VIII (page no. 70)	<b>PYROLYSER ATTACHMENT</b> <b>Standard accessories</b> Eco stick: Eco stick SF -10 Nos., Eco stick DF -10 Nos.	It is manufacture specific. It's not required.	May be included "or suitable accessories."
53	Annexure-1 Sl. No. VIII (page no. 70)	<b>PYROLYSER ATTACHMENT</b> <b>Standard accessories</b> Sampler: Double-Shot sampler 1No., Double-Shot sampler stand 1 No Liquid sampler 1 No., septum for liquid sampler 5 Nos	It is manufacturer specific. Please include auto sampler for the pyrolyzer.	Tender condition remain unchanged.
54	Annexure-1 Sl. No. VIII (page no. 70)	– Pyrolyzer furnace 30 up to 1050°C (1°C step)	Please amend or add as It should be coil element and Pulse Pyrolysis Programmable in 1 °C increments to 1400 °C.	Tender condition remain unchanged.
55	Annexure-1 Sl. No. VIII (page no. 70)	Ramp rate 600°C/min max (1°C step)	Please amend or add as Programmed Pyrolysis Heating Rates: 0.01 °C/ms to 20 °C/ms; °C/sec to 999.9 °C/sec 0.01 °C/min to 999.9°C/min	Tender condition remain unchanged.
56	Annexure-1	Overheat protection temperature	• Please remove it as it is specific to a particular	May include "or suitable over

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
	Sl. No. VIII (page no. 70)	PY: 1100°C, ITF: 500°C, Sample cup standby position: 100°C	Brand. • Please include: or suitable as per the manufacturer protocol.	heat protection temperature.”
57	Annexure-1 Sl. No. VIII (page no. 70)	<b>4. Standard accessories Software &amp; Library</b> Windows based Control software in CD/ Electronic media - Original & licensed+ version of current generation.  Standard NIST/Wiley library:(a) Polymer library for EGA, (b) Polymer library for pyrograms, (c) Library for pyrolyzates,(d) Library for additives	Please add polymer pyrolysis GC-MS library.	Tender condition remain unchanged.
58	Annexure-1 Sl. No. VIII (page no. 71)	<b>PYROLYSER ATTACHMENT</b>  Accessories and column: Sample for performance check (polystyrene solution containing methylstearate).	Please include compound Styrene/isoprene copolymer/Nylon 6.6 Polyethylene (Low density).	Tender specification may be read as “Sample for performance check (polystyrene solution containing methylstearate or suitable compounds).
59	Annexure-1 Sl. No. VIII (page no. 71)	<b>PYROLYSER ATTACHMENT</b>  Accessories and column: Eco pickup F -5 pcs, Eco stand AL - 5pcs	It is manufacture specific its not required.	May be included “or suitable accessories.”
60	Annexure-1 Sl. No. VII (page no. 69)	<b>Data system software</b>  Windows based validated software with CD for single point control of entire GC instrument, auto sampler, MS and Pyrolyzer attachment	Please remove single point control as pyrolyser is a third party accessory which will have separate software.	“Single point control of” stands deleted.

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
<b>Commercial Clarifications</b>				
61		CCAMC and warranty need to cover consumables.	Kindly clarify which consumables are need to be included in the warranty & CCAMC offer. Consumables like Chemicals, Solvents, Column, Gases for sample preparation and analysis shall not be included in CCAMC and warranty.	Refer to reply provided at S.No. 26.
<b>Hydrocarbon Solutions (India) Pvt. Ltd</b>				
<b>Technical Clarifications</b>				
62	Annexure-1 Sl. No. I (page no. 68)	<b>Oven</b> Temperature range : Ambient to 450 °C	We request you to amend this clause as "ambient + 4 deg C to 450 deg C", Since it is not technically possible to run temperature program directly from ambient conditions for GCMS.	Amended to "ambient + 4 deg C to 450 deg C."
63	Annexure-1 Sl. No. VIII (page no. 68)	<b>PYROLYSER ATTACHMENT</b> <b>Furnace and sampling unit</b> Temperature control range: Ambient to 1050°C (1°C step)	We request you to amend this clause as "ambient + 10 deg C to 1050 deg C", Since it is not technically possible to run temperature program directly from ambient condition for Pyrolyser unit.	Amended to "ambient + 10 deg C to 1050 deg C."
64	Annexure-1 Sl. No. VI & VIII (page no. 68)	<b>Sl.No. VI: MS Specifications</b> "Library: Latest version of NIST library/ Willey library with license for plastics, polymers etc. with Deconvolution reporting software to be supplied with the system"  <b>Sl.No. VIII: Software &amp; Library</b> Standard NIST/Wiley library:(a) Polymer library for EGA, (b) Polymer library for programs, (c) Library for pyrolyzates, (d)	We believe this is a typographical error and vendor needs to supply latest NIST/Wiley library once only. Kindly confirm	Tender specification Sl. No. VI "Library: Latest version of NIST library/ Willey library with license for plastics, polymers etc. with Deconvolution reporting software to be supplied with the system" stands deleted.

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
		Library for additives		
<b>Commercial Clarifications</b>				
65	Section VII (Page No. 37)	The Tenderer/OEM should have supplied minimum 10 Nos. of Pyrolysis Gas Chromatograph Mass Spectrometer, quoted for, in the last three years	We request you to relax this clause to 03 (three) numbers as none of the manufacturers sells Pyrolyser not more than one or two units a year as requirement of the product in the industry as well as in academics/research lab is very minimal.	Please read "04 Nos." in place of "10 Nos." minimum number of Pyrolysis Gas Chromatograph Mass Spectrometer supplied in the last three years.
<b>Toshvin Analytical Pvt Ltd.</b>				
<b>Technical Clarifications</b>				
66	Annexure-1 Sl. No. IV (page no. 68)	<b>Auto sampler</b>  Sample injection 10 nl (with 1 µl syringe) to 50 µl (with 100 µl syringe)	Please change: Sample injection 100 nl (~ 0.1 µl) with 10 µl syringe to 50 µl (with 100 µl or more syringe) syringe	Refer to reply provided at S. No. 32.
67	Section VII (Page no. 37)	<b><u>QUALIFICATION CRITERIA</u></b> The Tenderer/ OEM should have supplied minimum 10 Nos. of Pyrolysis Gas Chromatograph Mass Spectrometer, quoted for, in the last three years. Documentary proof for the same should have been closed.	Please reduce minimum from 10 Nos. to 05 Nos. pyrolysis.	Refer to reply provided at S.No. 65.
68	Section VII (Page no. 37)	<b><u>QUALIFICATION CRITERIA</u></b> The Tenderer/OEM itself or through its authorised agency should have maintained minimum 5 Nos. of similar type of Equipment/Instrument, in each year, in the past three years in India. A certificate to this effect with documentary proof should be enclosed by the Tenderers along with the TenderForm	Please reduce minimum from 05 No's to 02 No's.	Please read "02 Nos." in place of "05 Nos." minimum number of Pyrolysis Gas Chromatograph Mass Spectrometer maintained in each year, in the last three years.

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Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
<b>e-Tender No. 52(AS)/2018 dated 22.05.2018: High Performance Thin Layer Chromatograph-Mass Spectrometer (HPTLC-MS)</b>				
<b>Thermo Fisher Scientific India Pvt. Ltd</b>				
<b>Technical Clarifications</b>				
69	Annexure-1 Sl. No. VIII (page no. 69)	Mass range: m/z upto 2000	Please amend to 1250 AMU	Tender condition remain unchanged.
70	Annexure-1 Sl. No. VIII (page no. 69)	Dedicated Ion source: ESI and optional APCI	We do not have APCI as of now. Hence request to remove optional APCI	Tender condition remain unchanged.
71	Annexure-1 Sl. No. VIII (page no. 70)	1pg reserpine S/N > 150 RMS	We have sensitivity of 1pg with s/n 40:1, hence request you to amend it to 40:1	Tender condition remain unchanged.
<b>Anchrom Enterprises (I) Pvt. Ltd.</b>				
<b>Technical Clarifications</b>				
72	Annexure-1 (page no. 68)		Add the Nitrogen Gas Generator-Imported for operating the Mass spectrometer for TLC_MS as mentioned below : Imported Nitrogen Generator required for Mass Spectrometer Perpetual flow Nitrogen Generator, gas flow 32 L/min. Inlet pressure 120-145 psi, Outlet pressure 100 psi	Suitable Nitrogen gas generator with built in compressor of capacity 32 lit/min or better to be quoted
73	Annexure-1 (page no. 68)		UPS should be of 10 KVA	"UPS" may be read as "UPS 10 KVA"
<b>Commercial Clarifications</b>				

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
74			If we pay custom duty, how we will reimburse custom duty.	Custom Duty & taxes, as applicable, shall be reimbursable as per actual on submission of proof of payment.
75			Suppose order is placed in the name of OEM and if the payment in foreign currency made to OEM as per order value in that case the bill of entry on whose name and custom duty / IGST paid by vendor/dealer on behalf of CBEC, how it work.	The tender is for supply, installation and commissioning of equipment/ instrument at the final destination and acceptance by the purchaser in terms of the contract. The Supplier has to import the same in his own name, carry out customs clearance including payment of Custom Duty (which is reimbursable), arrange for insurance, transportation, receipt at site, etc.
76			Our agency agreement with Camag is for one year, Camag renewed the same each year, Clause No. 7.4 of Qualification Criteria.	Documentary evidence in support of compliance to the requirement of the clause is required from the OEM.

e-Tender No. 54(AS)/2018 dated 22.05.2018:Adsorbable Organic Halogen Analyser (AOX)

Elico Marketing Pvt. Ltd.

**Technical Clarifications**

77	Annexure-1 Sl. No. 1 (page no. 68)	The system should be capable for measurement of AOX, POX, EOX, TX in solid, liquid or gaseous samples through Computer based software	We request to change POX from solid and gaseous samples. Solid and gaseous samples not applicable for POX.(as per request given in hard copy). We request to change POX from solid and gaseous samples application. If application not require POX	Tender condition remain unchanged.
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Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
			measurement for solid and gaseous samples or if POX application not required, remove same.	
78	Annexure-1 Sl. No. 30 (page no. 69)	Syringe  1 to 5.0 µl, 1 to 10.0 µl & 1 to 25.0 µl-10 Nos. of each	We request you to consider 10 µl and 100 µl syringes as supply. We request you to 10 µl and 100 µl syringes in place of 1 to 5.0 µl & 1 to 25.0 µl which can fulfil volume 5 µl and 25 µl.	Tender condition remain unchanged.
79	Annexure-1 Sl. No. 20 (page no. 69)	Quartz frits of various diameter for filtration : Optional	If possible pl. Consider defining the quantity to be quoted (as per request given in hard copy). If possible pl. Consider defining quantity required for Quartz Frits to be quoted.	Required for analysing 1200 samples per annum.
<b>Commercial Clarifications</b>				
80			If possible payment terms to be considered against LC- 80 % payable against document and 20% against installation. Completion.	Tender condition remain unchanged.
81			2 yrs warranty & 5 years CAMC is asked with included spares and consumables. We request you to define number of samples per year so that exact quote for spares and consumables can be provided.	Approximately 1200 samples per annum.
82			Turnover - Accept letter from OEM CEO that turn over more than 5 crore	Audited balanced sheet with profit & loss account of OEM will need to be submitted.
83	Clause 7.7 Section VII Page no 37	7.7 The Tenderer/OEM should have supplied minimum 10 Nos. of Adsorbable Organic Halogen Analyser, quoted for, in the last three years. Documentary proof for the same should be enclosed	As per clause no 7.7 10 number asked which is difficult to arrange Kindly change it to 3 numbers of AOX/TX/TN/TS analyser if possible	Tender condition remain unchanged.

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
84	Clause 7.8 Section VII Page no 37	7.8 The Tenderer/OEM itself or through its authorised agency should have maintained minimum 5 Nos. of similar type of Equipment/Instrument, in each year, in the past three years in India. A certificate to this effect with documentary proof should be enclosed by the Tenderers along with the Tender Form.	As per clause 7.8 please change to 2 No similar type of Equipment with documentary proof of service report/AMC reports.	Tender condition remain unchanged.
85			Kindly allow to quote PC, Printer, Gas Cylinder, UPS etc in separate line from other sources in currency different than main equipment.	Suggestion is accepted.
<b>ADDITIONAL COMMERCIAL CLARIFICATIONS</b>				
86	Clause 3.8, Section - III [Page 21]	"Inspection & Quality Control"		Clause 3.8.1 & 3.8.2 are to be read together. Thus, while cost of travel, lodging & boarding of Purchaser's representatives to carry out inspections & tests will be borne by the Purchaser, the cost incurred in conducting the requisite inspections & tests to confirm the conformity of the equipment/ instrument to the contract specifications and other quality control requirements will be borne by the Supplier.
87	Annexure - 1 (Technical Specification of Equipment/ Instrument	"All essential spares and accessories to be quoted for operating the instrument for 5 years." - wherever included		"All essential spares and accessories should not be quoted separately", however, these are to be considered as part of warranty maintenance &



Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
				CCAMC maintenance [Ref. Clause 4.11 & 4.12, Section - IV].
88	Clause 4.3.3 (ii) Section - IV, [Page 29]	" Shipment of the items (import of items, in case of foreign supply)"		The tender is for supply of equipment/ instrument on door delivery basis. Hence, Supplier has to import the same in his own name, carry out customs clearance including payment of Custom Duty (which is reimbursable), arrange for insurance, transportation, receipt at site, etc.
89	Clause 2.37.1, Section II [Page 19]	"Integrity Pact"		Please sign a pre-bid, pre-contract Agreement called the Integrity Pact as per the format given in Form-11 of Section IX with the purchaser before submitting tenders at least two days prior to the last date for submission of tenders. For this purpose, please send a letter or fax well in advance seeking a convenient date and time. Refer to Clause 2.37.1, which is amply clear.

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