

e-Tender Nos. 37(AS)/ 2018 to 40 (AS)/ 2018 dated 01.05.2018 for supply, installation and commissioning of HPLC, GC, PONA and GPC respectively for laboratories of Central Board of Indirect Taxes & Customs

e-Tender Nos. 41(AS)/2018 to 43(AS)/2018 dated 07.05.2018 for supply, installation and commissioning of SEM, ARM and DSC respectively for laboratories of Central Board of Indirect Taxes & Customs

Minutes and clarifications of pre-bid conference held on 24.05.2018

F. No. 441/15/DL(AS)/2018/Group-V

Dated: 31.05.2018

Subject: e-tender Notices for supply, installation and commissioning of (i) High-Performance Liquid Chromatography (HPLC) [e-tender no. 37(AS)/2018], (ii) Gas Chromatograph (GC) [e-tender no. 38(AS)/2018], (iii) Paraffin, Olefin, Naphthenes, Aromatic Analyzer (PONA) [e-tender no. 39(AS)/2018], (iv) Gel Permeation Chromatography (GPC) [e-tender no. 40(AS)/2018], (v) Scanning Electron Microscope (SEM) [e-tender no. 41(AS)/2018], (vi) Automated Reflectance Microscopy (ARM) [e-tender no. 42(AS)/2018] and (vii) Differential Scanning Calorimeter (DSC) [e-tender no. 43(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: 24.05.2018 at 14.30 hours.

A Pre-bid Conference was held on 24.05.2018 at 14.30 hrs. 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 the e-tenders tabulated 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.	Ashok Aswal	Deputy Commissioner, Directorate of Logistics
4.	Gyanendra Saxena	Chemical Examiner Gr. II, CRCL, New Delhi
5.	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.	Sudip Neogy	Hydrocarbon Solutions (India) Pvt. Ltd., Bangalore
2.	Sarvendra Pratap Singh	Perkin Elmer (India) Pvt. Ltd., New Delhi
3.	Vinay Tiwari	Thermo Fisher Scientific India Pvt. Ltd., Noida
4.	Amit Sikka	Toshvin Analytical Pvt. Ltd., Mumbai

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5.	Rupak Mitra	Toshvin Analytical Pvt. Ltd., Mumbai
6.	Amit Bhatia	Aimil Ltd., New Delhi
7.	Vinay Sharma	Aimil Ltd., New Delhi
8.	Ramesh Rawat	Aimil Ltd., New Delhi
9.	Rahul Dev Sharma	Spinco Biotech Pvt. Ltd., New Delhi
10.	Lalit Kumar	Waters India Pvt. Ltd., New Delhi
11.	Prem Mishra	Forevision Instrument Pvt. Ltd., Hyderabad
12.	Rajat Singh	Mettler Toledo India Pvt. Ltd., New Delhi
13.	P. Chengalrayulu	LCGC Bioanalytic Solutions LLP, Hyderabad
14.	Dev Sekhar	Carl Zeiss India (Bangalore) Pvt. Ltd., New Delhi
15.	T.A.K. Ghori	Inkarp Instruments Pvt. Ltd., Hyderabad

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 17.05.2018 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. Hydrocarbon Solutions India Pvt. Ltd., Bangalore for e-tender nos. 37(AS)/2018, 39(AS)/2018 and 40(AS)/2018.

3.2 Additional queries were received from the other participants namely, M/s Forevision Instruments (India) Pvt. Ltd. Hyderabad, M/s Aimil Ltd. New Delhi, M/s Perkin Elmer New Delhi, M/s Toshvin Analytical Pvt. Ltd. New Delhi, M/s Waters (India) Pvt. Ltd. New Delhi, M/s Spinco Biotech Pvt. Ltd. Noida, M/s Carl Zeiss India (Bangalore) Pvt. Ltd. New Delhi, M/s LCGC Bioanalytic Solutions LLP Hyderabad, M/s Mettler Toledo India Pvt. Ltd. New Delhi and M/s Inkarp Instruments Pvt. Ltd. Hyderabad 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.



GNIT e-Tender No. 37(AS)/2018 to 40(AS)/2018 dated 01.05.2018

Procurement of Four (04) units of High Performance Liquid Chromatograph System (HPLC), Three (03) units of Gas Chromatograph System (GC), One (01) unit of Parafin, Olefin, Napthenes & Aromatic Analyser (PONA) and Two (02) units of Gel Permeation Chromatograph System (GPC) for the Laboratories of Central Board of Indirect Taxes & Customs

GNIT e-Tender No. 41(AS)/2018 to 43(AS)/2018 dated 07.05.2018

Procurement of One (01) unit of Scanning Electron Microscope (SEM), One (01) unit of Automated Reflectance Microscopy (ARM) and Two (02) units of Differential Scanning Calorimeter (DSC) for the Laboratories of Central Board of Indirect Taxes & Customs

Clarifications of pre-bid queries.

Sl. No	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DOL
e-Tender No. 37(AS)/2018 dated 01.05.2018: High Performance Liquid Chromatograph (HPLC)				
Hydrocarbon Solutions (India) Pvt. Ltd.				
Technical Clarifications				
1.	Annexure-1 Sl. No. I (page no. 68)	<u>Point No.I, Solvent Delivery System</u> (1) Operating pressure: 0 to 6000 psi	We request you to amend the specifications as Operating pressure upto 5880 psi (400 bar); as Agilent system is upto 400 bar	Tender condition remain unchanged.
2.	Annexure-1 Sl. No. I (page no. 68)	<u>Point No.I, Solvent Delivery System</u> (4) Flow rate: 0.01 - 10.00 ml/min	We request you to amend the specifications as Flow range: 0.2 to 10 ml/min	Tender condition remain unchanged.
3.	Annexure-1 Sl. No. I (page no. 68)	<u>Point No.I, Solvent Delivery System</u> (8) Programmable gradient profile with more than 5 types of gradient program.	We request you to amend the specifications to read as Linear Gradient Profile as Agilent provides only Linear Gradient Profile	Tender condition remain unchanged.

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4.	Annexure-1 Sl. No. III (page no. 68)	<u>Point No.III, Column Oven</u> The instrument should be able to hold at least two columns up to 30cm length along with guard column.	We request you to amend the specifications to read as "The instrument should hold at least four columns of 30 cm length"	Tender condition remain unchanged.
5.	Annexure-1 Sl. No. III (page no. 68)	<u>Point No.III, Column Oven</u> The temperature range should be ambient to 80C.	We request you to amend the specifications to read as "The temperature range should be 10 deg below ambient to 80 Deg C"	Tender condition remain unchanged.

Commercial Clarifications

6.	Clause 4.1, (iii) Section-IV Page 29	Page 29, Clause 4.1, (iii) under Section-IV Schedule of Requirements; it states that" Maintenance during warranty period of 2 (Two) years including supply of spare parts and consumables;"	Kindly confirm that here consumables are related only to main instrument (OEM) product i.e. HPLC system and all consumables for other bought out items like online UPS, Printer catridges, Solvent Filtration kit, Sample Extraction kit etc will be arranged by end user.	Consumables required for main equipment as well as for bought out items are covered under the referred clause. However, printer papers/ cartridges, gas refill will be arranged by the Purchaser.
7.	Clause 4.12.1 Section-IV Page 32	Page 32, Clause 4.12.1, under Post Warranty Maintenance of Section-IV Schedule of Requirements, it states that" The scope of CCAMC shall include (a) supply of all accessories, spare parts, consumables & peripherals, (b) periodical preventive visits, (c) unlimited "on-call' visits to attend to the repairs and breakdowns."	Kindly confirm as above here spare parts and consumables will only be limited to the main instrument (OEM) product i.e. HPLC system and all spare parts, consumables for other bought out items like Online UPS, Printer catridges, Solvent Filtration kit, Sample Extraction kit etc will be arranged by end user.	Refer to clarifications provided at Sl. No. 6.

Spinco Biotech Pvt. Ltd.

Technical Clarifications

8.	Annexure-1 (page no. 68)	IV. Detectors: Diode Array Detector Drift: $\leq 1 \times 10^{-4}$ AU/hr	Kindly amend Drift: $\leq 5 \times 10^{-4}$ AU/hr As No Vendor provide the mentioned drift in the Tender	May be amended as $\leq 5 \times 10^{-4}$ AU/hr.
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Commercial Clarifications

9.	Clause 3.5.1 Section-III Page No. 20	Section-III (GCC) 3.5 Performance Security 3.5.1 Within 21 days after the issue of notification of award by the purchaser	Kindly amend to within 35 days after the issue of Notification of award	Tender condition remain unchanged.
Waters India Pvt. Ltd.				
Technical Clarifications				
10.	Annexure-1 SI No. 1 (page no. 68)	Solvent Delivery system Operating pressure : 0 to 6000 psi	We request you to change the Operating pressure from 0 to 6000 psi to 0 to 5000 psi	Tender condition remain unchanged.
e-Tender No. 38(AS)/2018 dated 01.05.2018: Gas Chromatograph System (GCS)				
Toshvin Analytical Pvt. Ltd				
Technical Clarifications				
11	Annexure-1 Point No. IV (page no. 68)	Detector: A) <u>Flame Ionization Detector:</u> Minimum Detection Limit (MDL): 1.5pgc/s or better for Tridecane.	Pt. No.4: IV Detector A) Flame Ionization Detector. Please change from existing to "Minimum Detection Limit (MDL): 1.5 pgc/s or better for Tridecane/Dodecane." Henceforth add Dodecane as well. Since MDL for Tridecane is manufacturer specific. We can achieve 1.5pgc/s MDL with Tridecane, but MDL is mentioned with Dodecane in our specification of 1.5pgc/s.	Tender condition remain unchanged.
12	Annexure-1 Point No. IV (page no. 68)	B) <u>ECD Detector:</u>	Pt. No. 8) ECD Detector ECD Detector has Ni 63 radioactive material which needs NOC from AERB, which is to be taken by users as per site of installation. Henceforth please clarify.	NOC from AERB for import of EDC detector will need to be obtained by the Supplier. However, AERB's approval for installation and use of the instrument will be taken by the user Commissionerate.

Perkinelmer India Pvt. Ltd.

Technical Clarifications

13	Annexure-1 Point No. I (page no. 68)	Oven: Temperature programmed: 15 ramps/16 plateau or better.	9 ramp/10 Plateaus Changes required to participate in tenders.	Tender condition remain unchanged.
14	Annexure-1 Point No. IV (page no. 68)	Detector: A) Flame Ionization Detector: Minimum Detection Limit (MDL): 1.5pg c/s or better for Tridecane.	3 pg/c/s with octane should be there in option also. Remarks: PerkinElmer offering the sensitivity with octane so in real time sensitivity is same but FID is hydrocarbon sensitive, so more carbon no, molecule like tridecane can show the better sensitivity. We are using less carbon molecule hence sensitivity is looking less.	Tender condition remain unchanged.
15	Annexure-1 Point No. IV (page no. 68)	B) ECD Detector: MDL < 5fg/s for BHC / Lindane	0.05 Pg/s for Perchloroethylene should be there in options also. 0.05 Pg/s is looking less because of less chlorine molecule has been used to sensitivity, in real time it will be better also	Tender condition remain unchanged.
16	Annexure-1 Point No. V (page no. 68)	Auto sampler: with variable syringe size with provision for 100 vials 2 ml capacity. The instrument must have provision to upgrade for head space attachment in future.	It should be capable to inject in both the ports without any physical adjustment. As two injector were asked in tender hence auto sample should have with the facility to inject in both the injection ports.	Tender condition remain unchanged.

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TECHNICAL CLARIFICATIONS

17	Annexure-1 Point No. I (page no. 68)	Oven: Temperature range :Ambient to 450°C	Kindly amend this clause to read as "Ambient +4 deg C to 450 deg C" as it is not possible to heat from the ambient conditions.	Tender condition remain unchanged.
18	Annexure-1 Point No. III (page no. 68)	Injectors: 1) Split/ Split less Capillary Injector. 2) Automatic control of split vent and purge flows.	Kindly clarify how many injectors are required. One or Two as two detectors are being desired.	Two injectors required.

e-Tender No. 39(AS)/2018 dated 01.05.2018: Parafin, Olefin, Napthenes & Aromatic Analyzer (PONA)

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TECHNICAL CLARIFICATIONS

19	Annexure-1 (page no. 68)	<u>Line 1, 2nd paragraph of the technical specifications, it states that</u> The application must provide individual component data, boiling point distribution, research octane number and physical parameters. The report should contain group type information like paraffinic, iso-paraffinic naphthenic, olefinic and aromatic concentrations by carbon number and boiling point distribution.	We request you to remove the "boiling point distribution" word wherever it appears as PONA/DHA analysis report does not provide the same	Accepted. In the specification "boiling point distribution" is deleted, wherever it occurs.
20	Annexure-1 Sl. No. 3 (page no. 68)	<u>Point No. 3, of the technical specifications, INJECTOR:</u> (i) Programmed Temperature Vaporizer (PTV), Split/splitless injector system with electric flow control/pneumatics control (ii) Maximum temp: 450°C.	(a) Kindly clarify how many injectors are required one or two as both PTV and S/SL injectors are mentioned. (b) If S/SL injector is required then request you to mention the maximum temperature as 400 deg C as Agilent does not have S/SL injector with 450 deg C.	Two injectors are to be provided. Tender condition remain unchanged.

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21	Annexure-1 Sl. No. 4 (page no. 68)	<u>Point No. 4, of the technical specifications, Flame Ionization Detector (FID)</u> iii) Minimum Detectable level: $\leq 3\text{pgC/s}$	Request you to amend the specifications as Minimum Detection Limit $<2\text{ pg C/sec}$, at least for better identification of lower concentration components	Tender condition remain unchanged.
22	Annexure-1 Sl. No. 10 (page no. 68)	<u>Point No. 10, Consumables required for installation & smooth operation of analyser for at least 5 years to be quoted.</u> iii) Any other items required for complete installation and commissioning of the system.	Kindly clarify this point as end user will be required to arrange all pre-requisite for the installation including AC, ready to inject samples etc.	Facilities that would be provided by the Purchaser are mentioned under clause 4.5, Section IV of the tender. Rest of provisions will have to be made by the supplier. Also please refer clarification at Sl. No. 75.
23	Annexure-1 Sl. No. 10 (page no. 68)	<u>Point No. 10, Consumables required for installation & smooth operation of analyser for at least 5 years to be quoted.</u> iv) Consumables for trouble free operation for 1000 tests approx. (per year)	If we interpret this point correctly vendor needs to quote consumables for 5000 samples testing but these consumables will be only related to the main instrument and not bought out items & even CRM's	Refer to clarifications provided at Sl. No. 6 & 75.

COMMERCIAL CLARIFICATIONS

24	Clause 4.1, (iii) Section-IV Page 29	Page 29, Clause 4.1, (iii) under Section-IV Schedule of Requirements; it states that "Maintenance during warranty period of 2 (Two) years including supply of spare parts and consumables;"	Kindly confirm that here consumables are related only to main instrument (OEM) product i.e. PONA Analyzer and all consumables for other bought out items like online UPS, Printer cartridges, Gas Filters etc will be arranged by end user.	Refer to clarifications provided at Sl. No. 6.
25	Clause 4.12.1 Section-IV Page 31	Page 31, Clause 4.12.1, under Post Warranty Maintenance of Section-IV Schedule of Requirements, it states that "The scope of CCAMC shall include (a) supply of all accessories, spare parts, consumables & peripherals, (b) periodical preventive visits, (c) unlimited "on-call" visits to attend to the repairs and breakdowns."	Kindly confirm as above here spare parts and consumables will only be limited to the main instrument (OEM) product i.e. PONA Analyzer and all spare parts, consumables for other bought out items like Online UPS, Printer cartridge, Gas Filters etc. will be arranged by end user.	Refer to clarifications provided at Sl. No. 6.

26	Clause 7.7 Section-VII Page 37	Page No. 37, Clause 7.7 of Section-VII Qualification Criteria, it states that "The Tenderer/OEM should have supplied minimum 5 Nos. of Parafin, Olefin, Naphthenes & Aromatic Analyser (PONA), quoted for, in the last three years. Documentary proof for the same should be enclosed."	We request you to change the number of units to three numbers from 5 numbers; as chances are high that we have not supplied 5 nos of PONA in last three years.	Accepted. Tender condition is modified accordingly.
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TECHNICAL CLARIFICATIONS

27	Annexure-1 Sl. No. 2 (page no. 68)	OVEN Temperature: Ambient temp +5°C to 450°C.	+ 10°C to 450°C + 5°C is not relevant with applications need to change to get the participation.	Tender condition remain unchanged.
28	Annexure-1 Sl. No. 3 (page no. 68)	INJECTOR (i) Programmed Temperature Vaporizer (PTV), Split/splitless injector system with electric flow control / pneumatics control.	PTV/PSS Justification Same features with different terminology.	Tender condition remain unchanged.
29	Annexure-1 Sl. No. 3 (page no. 68)	INJECTOR (iii) Pressure range 0-100 psi or better with 0.01 psi increments.	0.1 Psi increment Justification .01Psi not relevant with application change required to participate.	Tender condition remain unchanged.
30	Annexure-1 Sl. No. 5 (page no. 68)	FLOW CONTROL SYSTEM (i) The Gas chromatograph should have Electronic Pneumatic Control (EPC) System such as constant pressure, pressure programmer, constant flow for carrier gases, Detectors and for auxiliary gases iv) EPC setting must be adjusted in GC system both by keyboard & computer software.	EPC/PPC Justification Change required to participate.	Tender condition remain unchanged.

31	Annexure-1 Sl. No. 9 (page no. 70)	Auto Sampler Liquid (ALS) : Sample capacity 08 vials or more	Need to add facility to inject in both the injector ports without any physical work As asked analyzer must be automated and two injector port are also in demand hence to make it fully automated this feature is required, otherwise some vendor will quote there single injector tower for one injector port only, then you move it physically to inject in other injector port.	Tender condition remain unchanged.
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e-Tender No. 40(AS)/2018 dated 01.05.2018: Gel Permeation Chromatograph System (GPC)

HYDROCARBON SOLUTIONS (INDIA) PVT. LTD.

TECHNICAL CLARIFICATIONS

32	Annexure-1 Sl. No. I (page no. 68)	<u>Point No. I, Solvent Delivery System</u> Isocratic Pump with on-line vacuum degasser	We request you to amend the specifications as Isocratic Pump with inbuilt degasser and solvent selection valve	Tender condition remain unchanged.
33	Annexure-1 Sl. No. I (page no. 68)	<u>Point No. I, Solvent Delivery System</u> (1) Operating pressure: 0 to 6000 psi	We request you to amend the specifications as Operating pressure: 0 to 8500 psi	Tender condition remain unchanged.
34	Annexure-1 Sl. No. II (page no. 68)	<u>Point No. II, Auto Sampler</u> Injection programmable from 25µl to 150 µl	We request you to amend the specifications to read as Injection programmable from 25 µl to 100 µl	Tender condition remain unchanged.
35	Annexure-1 Sl. No.III (page no. 68)	<u>Point No. III, Column Oven</u> The instrument should be able to hold at least two columns up to 30cm length along with guard column.	We request you to amend the specifications to read as "The instrument should hold atleast three columns of 30 cm length"	Tender condition remain unchanged.
36	Annexure-1 Sl. No.III (page no. 68)	<u>Point No. III, Column Oven</u> The temperature range should be ambient to 80°C.	We request you to amend the specifications to read as "The temperature range should be 10 deg below ambient to 80 Deg C"	Tender condition remain unchanged.

37	Annexure-1 Sl. No. IV (page no. 68)	<u>Point No. IV, Multiple Detection...</u> <u>b) UV-VIS Detector</u> <ul style="list-style-type: none"> Wavelength range: 190-700 nm Linear absorption range: \pm 2AU or more. Drift $<5 \times 10^{-4}$ AU/hr. Linearity $<5\%$ at 2AU 	We request you to amend the specifications to read as <ul style="list-style-type: none"> Wavelength range: 190-600 nm Linear range: 2.5 AU Drift 1×10^{-4} AU/hr. Linearity not required 	Tender condition remain unchanged.
38	Annexure-1 Sl. No. IV (page no. 68)	<u>Point No. IV, Multiple Detection...</u> <u>c) Viscosity Detector</u>	Kindly add the following specifications under Viscosity Detector <ul style="list-style-type: none"> Shear rate 3000 S-1 Sensitivity 1×10^{-5} Pa.s Temperature stability + or - 0.2 	Tender condition remain unchanged.
COMMERCIAL CLARIFICATIONS				
39	Clause 4.1, (iii) Section-IV Page 29	Page 29, Clause 4.1, (iii) under Section-IV Schedule of Requirements; it states that "Maintenance during warranty period of 2 (Two) years including supply of spare parts and consumables;"	Kindly confirm that here consumables are related only to main instrument (OEM) product i.e. GPC System and all consumables for other bought out items like online UPS, Printer cartridges Solvent Filtration kit, Sample Extraction kit, GPC standards, etc will be arranged by end user.	Refer to clarifications provided at Sl. No. 6.
40	Clause 4.12.1 Section-IV Page 31	Page 31, Clause 4.12.1, under Post Warranty Maintenance of Section-IV Schedule of Requirements, it states that "The scope of CCAMC shall include (a) supply of all accessories, spare parts, consumables & peripherals, (b) periodical preventive visits, (c) unlimited "on-call" visits to attend to the repairs and breakdowns."	Kindly confirm as above here spare parts and consumables will only be limited to the main instrument (OEM) product i.e. GPC System and all spare parts, consumables for other bought out items like Online UPS, Printer cartridges, Solvent Filtration kit, Sample Extraction kit, GPC standards etc will be arranged by end user.	Refer to clarifications provided at Sl. No. 6.
41	Clause 7.7 Section-VII Page 37	Page No. 37, Clause 7.7 of Section-VII Qualification Criteria, it states that "The Tenderer/OEM should have supplied minimum 10 Nos. of GPC System, quoted	We request you to change the number of units to four numbers from 10 numbers; as chances are high that we have not supplied 10 nos of GPC system in last three years.	Tender condition prevails

		for, in the last three years. Documentary proof for the same should be enclosed."	
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M/S. AIMIL LTD.

TECHNICAL CLARIFICATIONS

42	Annexure-1 Sl. No. IV(b) (page no. 68)	UV -Vis Detector Wavelength Accuracy : $\pm 1\text{nm}$	We request you to please change the Wavelength Accuracy to + 3nm	Tender condition remain unchanged.
43	Annexure-1 Sl. No.IV(a) (page no. 68)	Refractive Index Detector (A) Noise : $\pm 2.5 \times 10^{-9}$ RIU, (B) Drift: $\pm 1.0 \times 10^{-7}$ RIU/Hr.	(A) We request you to please change the Noise to 3×10^{-8} RIU . (B) We request you to please change the Drift to 3×10^{-7} RIU	Tender condition remain unchanged.
44	Annexure-1 Sl. No.VIII (page no. 68)	Spares & Consumables (A) Solvent Filtration Kit (Aqueous and Organic) including vacuum pump, 1 litre Flask, Membrane filters, etc. (B) Sample extraction kits (SPE) for 1000 samples.	(A) Solvent Filtration Kit (Aqueous & Organic)- We would like to know the Molecular weight range & the solubility of the samples that will be analyzed, so that we can quote for the appropriate Solvent Filtration Kits. (B) Again We would like to know the Molecular weight range & the solubility of the samples that will be analyzed, so that we can quote for the appropriate Solvent Filtration Kits.	Molecular weight range from 500 to 2,000,000 Daltons. Same as above.
45	Annexure-1 Sl. No.I (page no. 68)	Solvent Delivery system: Isocratic Pump with on-line vacuum degasser. Operating pressure : 0 to 6000 psi	We request you to please specify it as "0 to 6000 Psi or 400 bar	Tender condition remain unchanged.

COMMERCIAL CLARIFICATIONS

46	Clause 2.14 Section-II Page No. 12	<p>Payment Terms: Please refer page 12, clause 2.14: 80% of the basic cost of equipment on Installation and Balance 20% of the basic cost + other charges on commissioning.</p> <p>a) There is no mention of maximum time frame in which the payment will be made.</p> <p>b) Bank Guarantee equivalent of 10% of amount needs to be submitted against release of 20% payment.</p>	<p>Our Request: If this payment term can be done through Letter of Credit.</p> <p>a) Our Request: If you can provide an assurance on the timeline of the payment release, if all documentation and allied documentation work is completed by us in time.</p> <p>b) Our Request: Do we need to submit different BG for separate locations.</p>	<p>Terms & Mode of Payment remain unchanged. One Bank Guarantee is to be submitted to the office of the authority awarding the contract.</p>
47	Clause 4.12.11 Section-IV Page No. 32	<p>Performance security equivalent to 5% of the value of the contract shall be submitted by the tenderer at the time of signing CCAMC contract in the form of Account payee Demand Draft / Fixed Deposit Receipts in favour of –PAO, O/o the Pr. C.C.A., C.B.E.C., New Delhi issued from any Commercial Bank or Bank Guarantee in the Proforma given in Section X. The Guarantee will remain valid during the currency of the contract.</p>	<p>Performance Bank Guarantee (PBG): Please refer to page no 32, point no. 4.12.11: Please clarify, if PBG must be submitted separately for the various locations.</p>	<p>Refer to clarifications provided at Sl. No. 46.</p>
48	Clause 4.12.1 Section-IV Page No. 32	<p>Post warranty Maintenance 4.12.1 The scope of CCAMC shall include (a) supply of all accessories, spare parts, consumables & peripherals, (b) periodical preventive visits, (c) unlimited 'on-call' visits to attend to the repairs and breakdowns.</p>	<p>Post Warranty Maintenance: Please refer to page no. 32, point no: 4.12.1: You have mentioned un-limited 'on call' visits. Our Request: If this could be quantified in terms of visit.</p>	<p>The instrument will be used on 24 x 7 basis and hence it is not possible to quantify 'on-call' visits.</p>

e-Tender No. 41(AS)/2018 dated 07.05.2018:Scanning Electron Microscope

FOREVISION INSTRUMENTS (INDIA) PVT. LTD.

TECHNICAL CLARIFICATIONS

49	Annexure-1 Sl. No.I (page no. 68)	Resolution (SE): 2 nm or better @ 30KV with LAB 6 filament or other Filament Type	Resolution (SE) -2nm or better @ 30kv with LAB 6 filament or other Filament Type <u>Our comment::</u> Please remove this point from the specs. LaB6 has certain disadvantages over Tungsten filaments. The performance and lifetime of LAB6 are determined by several factors like vacuum level, cathode temperature, impurity level, crystal orientation, tip shape, and mount design. a) LaB6 Filament requires auxiliary vacuum system, a separate ion pump. Operating vacuum (10^{-7} torr) b) If LAB6 filament is not used for some time (3 to 4 days) then before its use, you are required to do conditioning which requires 7 to 8 hours. Here there is also the risk of damaging the filament. c) With LaB6 filament if your samples are not properly prepared, then there is always the risk of damaging the filament by loose particles and in case of Biological/beam sensitive samples there is always the possibility of contamination. d) LaB6 filament cannot be stocked at site due to its limited shelf life. e) Cost of one LaB6 filament is approx. USD 2,000 which is quite high compared to that of Tungsten (USD 1,500 for 10	Tender condition remain unchanged.
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			filaments in a box). The resolution is anyhow not much of a difference having 2nm at 30kv with LaB6 and 3nm at 30kv with Tungsten filament.	
50	Annexure-1 Sl. No.5 (page no. 68)	Electron Source: Thermionic emission type - (LAB 6 & W source factory pre-centred or any other centering arrangement which does not require in-situ centering)	Please remove LaB6 from the specs Reason as given above	Tender condition remain unchanged.
51	Annexure-1 Sl. No.8 (page no. 68)	Stage Specification: 5 axis motorized stage with movement facility for X = 100 mm or higher, Y = 100 mm or higher, Z = 50mm or higher, Tilt = 0 to 90° or more, Rotation = 360° (continuous).	Our Comment: Please amend to read as motorized stage with movement facility for X=50 mm or higher, Y=50 mm or higher, Z= 50 mm or higher, Tilt = 0 to 90° or more, Rotation =360° (continuous). and should accommodate 200 mm sample diameter.	Tender condition remain unchanged.
Commercial Clarifications				
52		Payment Terms	We could not find the mode of payment for foreign suppliers. We anticipate it must be through Letter of Credit. Please confirm. Further we also request you to accept 100% LC (at sight) as well anyway submit PBG for 10% value and this is a usual global payment terms.	Letter of credit payment is not available in this tender. Mode & Terms of Payment remain unchanged.
53		Taxes and Duties	Being an imported equipment, we presume buyer will take care of import customs duty, clearance charges etc. Please confirm. Also please let us know if you are entitled to any customs duty/ IGST exemptions.	Custom duty exemption is not available for the tendered item. It will be the responsibility of the vendor to undertake all import formalities including payment of duty etc. Custom Duty & taxes, as applicable, shall be reimbursable as per actual on submission of proof of payment. All other charges are to be borne by the

				Supplier.
e-Tender No. 42(AS)/2018 dated 07.05.2018:Automated Reflectance Microscope (ARM)				
Carl Zeiss India Pvt Ltd				
TECHNICAL CLARIFICATIONS				
54	Annexure-1 (page no. 68)	Specification for Microscope Research Microscope stand for Polarization for reflected light High Power LED white light illumination (50000 hrs. life time); with dovetail for interchangeable stages.	Recommendation for add on: Or 100 Watts Halogen Illumination	The specification may be read as "Research Microscope stand for Polarization for reflected light High Power LED white light illumination (50000 hrs. life time) or <u>Halogen illumination</u> ; with dovetail for interchangeable stages."
55	Annexure-1 (page no. 68)	Specification for Microscope SMITH reflector for Pol (advanced Pol-sensitivity)	Recommendation for add on: Or Suitable for Coal Petrography	The specification may include "or equivalent for coal petrography".
56	Annexure-1 (page no. 68)	Specification for Microscope Pol Observation phototube - FOV 25mm with 3-beam splitter:- 100/50/0 with variable port	Recommendation for add on: FOV 23/ 25mm with 3 beam splitter	The specification may be read as "FOV 23/25mm with 3-beam splitter:-with variable port
57	Annexure-1 (page no. 68)	Specification for Microscope Tube attachment including 2 camera outputs	Tube attachment for CCD Detector and Camera	Maybe read as " Tube attachment including camera outputs ".

58	Annexure-1 (page no. 68)	Specification for Microscope Set of Strain free HC Pol objectives, 10x, 20x for (with or without cover slip) and Reflected Light 20x/oil, 50x/oil & eyepiece pair 10x/25M + with graduated cross-line.	20x Oil not required & eyepiece 10x/23 with crossline.	In the specification "20x Oil" stand deleted and amend "eyepiece pair 10x/25 M with cross line" to "eyepiece pair 10x/23/25 M with cross line"
59	Annexure-1 (page no. 68)	Kotter Graticule for Microlithotype Coal analysis	Suitable Graticule for Coal analysis	Specification to include "or equivalent"
60	Annexure-1 (page no. 69)	Specification for Photometer for Reflectance Measurement both for MMR and Ro: Microscope Photometer both Single Wavelength (Point) Scanning System with 546 nm filter housed in filter-wheel adapter	PMT/CCD based Photometer for 350-900nm spectral range	The specification may be amended as "Latest PMT/CCD based photometer with wavelength scanning system from 350 to 900 nm spectral range.
61	Annexure-1 (page no. 69)	Specification for Photometer for Reflectance Measurement both for MMR and Ro: Photomultiplier Tube housing with built-in backward illumination	PMT/CCD with illumination support from the optical path suitable for Coal Petrology	The specification to include "or CCD detector suitable for Coal Petrology".
62	Annexure-1 (page no. 69)	PMT Details: Sensitivity 300 mA Operating voltages: 700 - 1100 V, adjustable with software. Number of amplifier stages: 4 (factor 1, 10, 100, 1000) Scan speed: 100 Hz (Max.) Baseline drift : $\pm 1\%$ h (after 2 h heating period) Signal-to-noise ratio : $\pm 0,5\%$ (3 % reflection, 5 Hz) Dimensions : 345 x 145 x 315 mm (W x H x D)	Or CCD with High Sensitivity suitable for Coal applications	The specification to include "or High sensitivity CCD detector suitable for Coal applications".

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		<p>Voltage : 85 - 265 VAC / 47 - 63 Hz IN/OUT : 6 x IN / 10 x OUT Illumination : 2 white LED, SMA 905 Optical connection : SMA 905 A/D converter : 16 Bit</p>		
63	Annexure-1 (page no. 69)	<p>Digital-cooled Colour Camera with CCD sensor (2/3") -Active cooling delta 20°C for reduced noise levels - Max. image size 2560x1920 pixel, 5 Mpixels - Fast live image 1280x960 pixel with 18fps - Pixelsize 3.4 µm x 3.4 µm - Fast and ultra sharp gray scale modes for more details in delicate imaging situations</p>	Suitable CCD Digital Cooled Colour Camera (2/3) of 5 MP suitable for Coal Petrology	The specification may be read as " Digital-cooled Colour Camera with CCD sensor (2/3") with 5 MPixels"
64	Annexure-1 (page no. 69)	<p>Standard Imaging Software: - Should be supplied by the Vendor which provides, an integrated working platform with the means of acquiring, storing, calibrating, annotating and interactively and automatically measuring microscope images with a Windows style user interface. - A scale bar or micron marker can be superimposed on the image with spatial calibration calculated automatically for microscope and camera combinations. - Interactive Measurements are made by using the mouse to indicate areas, lines, distances, angles, rectangles, count points. Colour space transformations, convolution</p>	Imaging software for Image acquiring, processing and report generation. Featuring Micron Bar, Interactive Measurements, Annotation suitable for Coal Analysis.	In the specification "User defined feature expressions with results given in histogram, scattergram and statistical formats QUIPS creates of macro-programs by recording steps interactively and provides arithmetic and control operations, interaction with image analysis dialogs, ability to format results output and complete programmability of all functions" may be deleted.

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		<p>and interactive editing further add to the versatility.</p> <ul style="list-style-type: none"> - Automatic thresholding gives binary images that may be processed by amendment, skeletonisation, logical operations, segmentation and manual editing and many other operations. Graphic generation of grids and spokes extends the capability. - A rich set of automatic measurements including, measurement of multiple particle parameters, Colour, Grey level and Densitometric measurements, Field and Feature measurements, User defined feature expressions with results given in histogram, scattergram and statistical formats QUIPS creates of macro-programs by recording steps interactively and provides arithmetic and control operations, interaction with image analysis dialogs, ability to format results output and complete programmability of all functions 		
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e-Tender No. 43(AS)/2018 dated 01.05.2018:Differential Scanning Calorimeter (DSC)

LCGC BIOANALYTIC SOLUTIONS LLP

TECHNICAL CLARIFICATIONS

65	Annexure-1 Sl. No. 7 (page no. 69)	A. DSC Heating: 0.02 to 200°C/min or better	We are providing Heating and cooling 0.01 to 100°C/min. Please consider our request.	Tender Condition prevails.
66	Annexure-1 Sl. No. 7 (page no. 69)	B. TGA 7. Sample holder 1. Aluminium Crucibles 1000 pieces with lid and sealing press.	<u>Sample holder</u> Here is asking for crucibles and lids. For TGA analysis not required lids. Still if you	Tender condition remain unchanged.

		2. Alumina Crucibles 30 pieces with lid. 3. Platinum Crucibles 4 pieces with lid.	required we can provide.	
INKARP INSTRUMENTS PVT. LTD.				
TECHNICAL CLARIFICATIONS DSC				
67	Annexure-1 Sl. No. 4 (page no. 69)	DSC Sensitivity : 0.1 μ W or better	Request for DSC Sensitivity 0.1 to 0.2 μ W. (0.1 μ W differences does not make any major effect, however, this range will give opportunity to other companies to participate in this tender.	Tender condition remain unchanged.
68	Annexure-1 Sl. No. 7 (page no. 69)	Heating and Cooling rate: Heating : 0.02 to 200 C/min or better, Cooling: 0.02 to 50 C/min or better. The unit of heating and cooling rate may be in C/min or equivalent units.	Request for a uniform Heating and Cooling rate: 0.01 to 100°C/ min or better,	Tender condition prevails.
TECHNICAL CLARIFICATIONS (TGA)				
69	Annexure-1 Sl. No 1 (page no. 69)	Temperature Range : Room temperature to 1600°C.	Request for Temperature range Room Temperature 1500°C Most of the TGA applications are covered up to 1450 to 1500°C (specially for Polymer Samples), additional 100°C, (for 1600°C) will not effect on the Systems except to increase the cost of the furnace/equipment.	Temperature Range may be amended as: Room temperature to 1500 °C or more.
70	Annexure-1 Sl. No. 2 (page no. 69)	Heating /Cooling Rate : 0.02 to 50°C/min or better	Request for Heating and Cooling rates 0.1 to 100°C/min Wider Heating and Cooling rates are always preferred specially various types of Polymers,	Tender condition prevails.

71	Annexure-1 Sl. No. 2 (page no. 69)	Balance measurement range : Up to 1 gm with sensitivity 1µgm or better.	Request for Sample balance measurement range 100 mg to 1000 mg, For TGA applications amount of sample is in very lesser quantity, If the balance capacity is low, its sensitivity will be able to detect any small amount loss of weight will be observed quite easily as compared to high balance measurement range. Hence measurement range 100 mg to 1000mg, will Good for different amounts-small and big amounts samples,	Tender condition prevails
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METTLER TOLEDO INDIA PVT. LTD, DELHI

COMMERIAL CLARIFICATIONS

72	Clause 2.14 Section-II Page No. 12	Terms and Mode of Payment 2.14.1 The detailed terms and mode of payment shall be as under : 2 On payment of Taxes & Duties : 100% Taxes and Duties : Document showing proof of payment of taxes & duties on equipment/ instrument, duly attested by the appropriate authority.	Page No:12, Clause : 2.14 Point: 2:14.1 In point no. 2 on payment of Taxes and duties we would not able to show my document proof for customs duty as we are 100% subsidiary of Mettler Toledo Inc.	In this case, your price bid may need to be in Indian Rupee, inclusive of custom duty, if any.
73	Clause 2.16 Section-II Page No. 13	2.16.1 The earnest money is required to protect the Purchaser against the Tenderer's withdrawing or altering its bid during the validity period. Hence EMD amount must accompany with the tender. EMD is required to be submitted at Directorate of Logistics, New Delhi by ----- at 1500 hrs. Scanned copy of EMD is required to be uploaded along with	Page No: 13, Clause 2.16 EMD-DGS&D & NSIC registerd vendors are exempted. As MSME replàcing NSIC should you accept MSME registration for EMD exemption, I am attaching the copy of MSME registration copy.	Exemption shall be available in accordance with the government instructions on the issue.

		<p>Technical bid. Tenderers, who are recurrently registered and also will continue to remain registered during the tender validity period with Directorate General of Supplies and Disposal or with National Small Industries Corporation (NSIC), New Delhi are exempted from payment of Earnest money. In case the tenderer falls in these categories, they should furnish certified copy of their registration with these agencies, clearly specifying the details of items for which they are registered.</p>		
<u>ADDITIONAL COMMERCIAL CLARIFICATIONS</u>				
74	<p>Clause 3.8, Section - III [Page 21]</p>	<p>"Inspection & Quality Control"</p>		<p>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.</p>
75	<p>Annexure - 1 (Technical Specification of Equipment/ Instrument</p>	<p>"All essential spares and accessories to be quoted for operating the instrument for 5 years." - wherever included</p>		<p>"All essential spares and accessories should not be quoted separately", however, these are to be considered as part of warranty maintenance & CCAMC maintenance [Ref. Clause 4.11 & 4.12, Section - IV].</p>

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76	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.
77	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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