

e-Tender No. 07(AS)/2019 dated 25.07.2019 for supply, installation and commissioning of Two (02) units of Differential Scanning Calorimeter (DSC) & Two (02) units of Thermo Gravimetric Analyzer (TGA) for Revenue Laboratories of Central Board of Indirect Taxes & Customs

Minutes and clarifications to Pre-bid Conference held on 19.08.2019

F. No. 441/31/DL(AS)/2018/Vol.II

Dated: 26.08.2019

Subject: e-tender Notice for supply, installation and commissioning of **Two (02) units of Differential Scanning Calorimeter (DSC) & Two (02) units of Thermo Gravimetric Analyzer (TGA)** [e-tender no. 07(AS)/2019] for Revenue Laboratories of Central Board of Indirect Taxes & Customs – reg.

Venue: Conference Hall, Directorate of Logistics, A-Wing, 4th Floor, Lok Nayak Bhawan, Khan Market, New Delhi

Date and time: 19.08.2019 at 14.30 hours

A Pre-bid Conference was held on 19.08.2019 at 14.30 hours in the Conference Hall of Directorate of Logistics, A-Wing, 4th Floor, Lok Nayak Bhawan, Khan Market, New Delhi to provide clarifications on the queries raised by the prospective tenderers pertaining to e-tender mentioned above. The Pre-bid Conference was chaired by Sh. Suresh Kishnani, Principal 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	Additional Commissioner, DoL, New Delhi
2.	S. L. Meena	Joint Commissioner, DoL, New Delhi
3.	K. C. Agrawal	Joint Director, CRCL, New Delhi
4.	D.S. Rana	Consultant, DoL, New Delhi
5.	Mukta Srivastava	Chemical Examiner Grade-I, CRCL, New Delhi
6.	J. K. Sharma	Superintendent, DoL, New Delhi

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

Sl. No.	Name (S/Sh./Dr./Ms)	Represented by
1.	Amit Sikka	M/s Toshvin Analytical Pvt. Ltd., New Delhi
2.	Rahul Gupta	M/s KEP Technologies Pvt. Ltd., Noida
3.	Rajat Kumar Jayasingh	M/s Mettler Toledo India Pvt. Ltd., Delhi
4.	Rajeev	M/s Mettler Toledo India Pvt. Ltd., Delhi
5.	Indrajit Kumar	M/s Waters India Pvt. Ltd., Bangalaoore
6.	Uday Kalidhar	M/s Perkin Elmer India Pvt. Ltd., New Delhi
7.	Jatinder Kumar	M/s Perkin Elmer India Pvt. Ltd., New Delhi



3.1 The Principal Commissioner (Logistics) welcomed all the participants and recalled that as per clause 2.9.1 of Section-II of Tender document prospective tenderers seeking clarifications on the tender document were required to submit their queries online by 09.08.2019 upto 15.00 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 Perkin Elmer India Pvt. Ltd., New Delhi.

3.2 All queries received online and during pre-bid conference were taken up for clarification and answered one by one by the official side. Few firms raised queries during the Pre-bid Conference, which were also discussed. The firms were advised to submit these queries in written format after the pre-bid conference, which would be examined and clarifications uploaded.

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

4. Principal 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.

A handwritten signature in blue ink, followed by a horizontal line and the date '26/8/19' written below it.

GNIT e-Tender No. 07(AS)/2019 dated 25.07.2019

Procurement of Two (02) units of Differential Scanning Calorimeter (DSC) & Two (02) units of Thermo Gravimetric Analyzer (TGA) for Revenue Laboratories of Central Board of Indirect Taxes & Customs

Pre-bid Conference held on 19.08.2019: Clarifications to pre-bid queries:

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
e-Tender No. 07(AS)/2019 dated 25.07.2019 : Differential Scanning Calorimeter (DSC)				
Perkin Elmer India Pvt. Ltd.				
Technical Clarifications :				
1.	Annexure-1 Sl. No. 1 (page no. 68)	Temperature Range Working temperature Range: Minus (-) 70 deg C to + 600 deg C".	Working temperature Range: Minus (-) 70 deg C to + 700 deg C". Justification: Wider range gives the flexibility of analyzing various samples	<i>May be read as: "Working temperature Range: Minus (-) 70 deg C to + 600 deg C or better."</i>
2.	Annexure-1 Sl. No. 2 (page no. 68)	Temperature Accuracy ± 0. 2 °C or better	±0.05 °C Justification: Better temperature accuracy gives the accurate and reproducible results.	<i>Tender specification remains unchanged.</i>
		Calorimetric Precision /Calorimetric Accuracy	+/- 0.03 +/- 0.2% (1% to qualify Netzch DSC 204 F1) Calorimetric accuracy and precision are very important parameters to measure DSC performance	<i>Tender specification remains unchanged.</i>

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
3.	Annexure-1 Sl. No. 4 (page no. 68)	DSC Sensitivity 0.1 μ W or better	0.1 μ W or better. Justification: DSC Noise would be the right terminology to put across	May be read as: "DSC Sensitivity - 0.2 μ W or better."
4.	Annexure-1 Sl. No. 5 (page no. 68)	Colorimetric accuracy ± 2 % or better	$<\pm 0.2\%$ Justification: Better temperature accuracy gives the accurate and reproducible results	May be read as: "Colorimetric accuracy/ Enthalpy Precision- $\pm 2\%$ "
5.	Annexure-1 Sl. No. 7 (page no. 68)	Heating and Cooling Rate 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 & cooling rate may be in C/min or equivalent units.	Heating: 0.01 to 200 C/min or better, Cooling: 0.01 to 100 C/min or better.	Tender specification remains unchanged.
		Dynamic range/measuring range	+/- 750 mw Measuring range is important parameter to study high energy compounds.	"Dynamic range/measuring range ± 350 mw or better."
6.	Annexure-1 Sl. No. 9 (page no. 68)	Baseline curvature Less than $< \pm 10$ μ W or better	Less than $< \pm 15$ μ W or better	May be read as: "Less than $< \pm 15$ μ W or better."
7.	Annexure-1 Sl. No. 11 (page no. 68)	20 samples or more	40 or more Justification: More positions better productivity	Tender specification remains unchanged.
8.	Annexure-1 Sl. No. 13	Software a) Operating Software and Analysis	a) Operating Software and Analysis Software	May be read as: "a) Operating

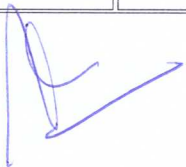
Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
	(page no. 68 - 69)	<p>Software should be windows based. Polymer library to be provided with system.</p> <p>b) Analysis software shall have provision to routine measurement like evaluations of glass transition temperature, peak area, peak temperature and mass loss steps, specific heat determination, degree of crystallinity, phase transformation, transition enthalpies, melting temperature, crystallization temperature etc. must be easily done with instrument.</p> <p>c) Original licensed version of the software to be provided in electronic media. Software should be 21 CFR compliant and upgradable.</p> <p>d) All the specification parameters should be demonstrated during installation.</p>	<p>should be windows based.</p> <p>b) Analysis software shall have provision to routine measurement like evaluations of glass transition temperature, peak area, peak temperature and mass loss steps, specific heat determination/direct Cp measurement, kinetics, purity, degree of crystallinity, phase transformation, transition enthalpies, melting temperature, crystallization temperature etc. must be easily done with instrument.</p> <p>c) Modulated DSC/ Step scan is must.</p> <p>d) Original licensed version of the software to be provided in electronic media. Software should be 21CFR compliant and up gradable.</p> <p>e) All the specification parameters should be demonstrated during installation.</p>	<p><i>Software and Analysis Software should be windows based. Polymer library/ Thermograms for polymers to be provided with system."</i></p> <p><i>Tender specification remains unchanged.</i></p> <p><i>Tender specification remains unchanged.</i></p> <p><i>-do-</i></p> <p><i>-do-</i></p>
9.	Annexure-1	<u>Gas cylinders with regulators</u>	-	<i>Nitrogen and Helium cylinders are to be supplied.</i>

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
	Sl. No. 15 (page no. 69)	Suitable gas cylinder with two stage gas regulator should be provided with the system.		

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
e-Tender No. 07(AS)/2019 dated 25.07.2019 : Thermo Gravimetric Analyzer (TGA)				
Perkin Elmer India Pvt. Ltd.				
Technical Clarifications:				
10.	Annexure-1 Sl. No. 1 (page no. 69)	Temperature Range Room temperature to 1500°C or more.	Room temperature to 1000 deg C or better. Justification: Almost all the samples degrade within 1000deg C	<i>May be read as: "Room temperature to 1000°C or more."</i>
11.	Annexure-1 Sl. No. 2 (page no. 69)	Heating / Cooling Rate 0.02 to 50°C/min or better.	0.1 to 200deg C Justification: Less than 0.1 deg C/min decreases completely the sensitivity of the sample and having a wider range of heating rate is important to develop methods.	<i>May be read as:"0.1 to 50°C/min or better."</i>
12.	Annexure-1 Sl. No. 3 (page no. 70)	TGA Resolution 0.1µg or better	0.2 ug or better	<i>May be read as: "0.2µg or better."</i>

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
			Justification: Narrow difference with the given spec, does not affect the sample analysis	
13.	Annexure-1 Sl. No. 4 (page no. 70)	Temperature Accuracy ± 0.5°C or better.	± 1°C or better. Justification: Narrow difference with the given spec, does not affect the sample analysis	<i>Tender specification remains unchanged.</i>
14.	Annexure-1 Sl. No. 7 (page no. 70)	Sample holder 1. Aluminium Crucibles 1000 pieces with lid and sealing press (for DSC) 2. Alumina Crucibles 30 pieces with lid. 3. Platinum Crucibles 4 pieces with lid.	Alumina Crucibles 45 pieces with lid.	<i>Item 1 & Item 3 stands deleted. Other requirements remains unchanged.</i>
15.	Annexure-1 Sl. No. 8 (page no. 70)	Auto sampler 20 samples or more	40 position	<i>Tender specification remains unchanged.</i>
16.	Annexure-1 Sl. No. 9 (page no. 70)	Gas Cylinders with regulators Suitable Gas cylinders with 2 stage gas regulators should be provided.	-	<i>Nitrogen cylinders are to be supplied.</i>
17.	Annexure-1 Sl. No. 10 (page no. 70)	Calibration Standards Suitable reference standards with traceability to be provided for temperature and heat flow (DSC Terminology).	Calibration Standards of Nickel, Alumel & Perkalloy should be supplied along with 100mg Weight for weight Calibration. Calcium Oxalate compound to be additionally quoted. Justification: Given specification is of DSC	May be read as: <i>"Calibration standards with traceability to be provided for entire temperature range."</i>

Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
			terminology and is not applicable for TGA	
18.	Annexure-1 Sl. No. 11 (page no. 70)	<p>Software</p> <p>1. Operating Software and Analysis Software shall be user friendly and shall be Windows based.</p> <p>2. Analysis software shall have provision to routine measurement like evaluations of glass transition temperature, peak area, peak temperature and mass loss steps, specific heat determination, degree of crystallinity, phase transformation, transition enthalpies, melting temperature, crystallization temperature etc must be easily done with instrument.</p> <p>3. Life time licensed version of the software to be provided in electronic media. It should be of current generation with 21 CFR and GLP compliant.</p>	<p>Software must be the latest version and should have a real time reference curve capability and weight calculation capability. Software must be able to save several different data files into one file. Software should be capable of running multiple instruments simultaneously on expansion and also to overlay curves from different techniques</p> <p>Justification: Red font is of DSC terminology and is not applicable for TGA</p> <p>-</p> <p>-</p>	<p><i>May be read as:</i> <i>"1. Latest version of Operating Software and Analysis Software shall be user friendly and shall be Windows based."</i></p> <p><i>May be read as:</i> <i>"2. Analysis software shall have provision to routine measurements."</i></p>



Sl. No.	Tender Clause & Page No.	Tender requirement	Query of the Firm	Response of DoL
19.	Annexure-1 Sl. No. 12 (page no. 71)	<u>Tools, Tackles and essential spares</u> Common tools & tackles and essential spares (such as each type of O-rings, ferrule, nuts, bolts, ranges, PTFE&SS gas tube between system and cylinders etc.) necessary for servicing or trouble free operation have to be supplied for at least of 5 years operation.	-	<i>Tender specification remains unchanged.</i>

Additional Commercial Clarifications:

20.	Clause 3.8, Section - III [Page 21]	"Inspection & Quality Control"	-	<i>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.</i>
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21.	Annexure - 1 Technical Specifications of Equipment/ Instrument [Page 68 to 71]	"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 & CCAMC maintenance [Ref. Clause 4.11 & 4.12, Section - IV].
22.	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.
23.		No. of samples per year may be specified to quote for consumables & spares.		Refer to clarification provided at Sl.No. 28.
24.	Clause 5.2.1, Technical Specifications, Section-V, [Page 34]	Supply of Two (02) units of Differential Scanning Calorimeter complete with accessories, spares, consumables, etc., as specified in this Section.		May be read as: "Supply of set of One (01) unit of Differential Scanning Calorimeter (DSC) & One (01) unit of Thermo Gravimetric Analyzer (TGA) complete with accessories, spares, consumables, etc., as specified in this Section at each location Delhi & Goa."



25.	Clause 2.37.1, Section II [Page 19]	"Integrity Pact"	-	<i>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.</i>
26.	Sl. No. 32(q) Tender Form-I, Section-IX [Page 42]	Confirmation that the clarifications provided vide minutes of pre-bid conference have been duly considered.		<i>All the Prospective tenderers are requested to take cognizance of the proceedings of the Pre-bid Conference before submitting their bids as stipulated in the Tender documents.</i>
27.	Clause 5.5.2, Section V [Page 34]	Application Laboratory		<i>May be read as: "Tenderer should have its Application laboratory/ Affiliate laboratory in India to provide primary service support, including periodic calibration, as required. Details of the Laboratory & arrangements made with such Laboratory may be submitted."</i>



28.	Clause 4.12.1, Section IV, [Page 31]	Post warranty maintenance		<i>On an average, provision for analysing 1200 samples/ year (total 6000) shall be considered for this purpose.</i>
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