

IFB NO. *EUSL/OTS/AHEAD/R3/NCB/19/01*



EASTERN UNIVERSITY, SRI LANKA

**ACCELERATING HIGHER EDUCATION EXPANSION AND DEVELOPMENT
OPERATION (AHEAD)**

PROCUREMENT OF GOODS

(NATIONAL COMPETITIVE BIDDING)

***Supply, Installation, Commissioning and Maintenance of Laboratory
Equipments.***

***(Fourier Transform Infrared (FT-IR) Spectroscopy and Thermo
Gravimetric Analysis (TGA))***

BIDDING DOCUMENT

SECTION 1 : INVITATION FOR BIDS



**AHEAD Operations
Eastern University, Sri Lanka (EUSL)**

Invitation for Bids (IFB)

**SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE
OF LABORATORY EQUIPMENTS.**

Procurement No. EUSL/OTS/AHEAD/NCB/R3/DOR/19/01

The Chairman Department Procurement Committee on behalf of the OTS, AHEAD Operations, Eastern University, Sri Lanka now invite sealed bids from eligible and qualified bidders for **SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF LABORATORY EQUIPMENTS.**

1. Bidding will be conducted through National Competitive Bidding Method (NCB) for following Items:
 - I. Supply, Install, Commissioning and Maintenance of FT-IR with all Accessories
 - II. Supply, Install, Commissioning and Maintenance of TGA with all Accessories
2. Interested eligible bidders may obtain further information from the Deputy Director, Procurement, OTS AHEAD Operations of EUSL & Inspect the bidding documents up to 09.12.2019 from 09.00 hours to 15.00 hour on working days at OTS AHEAD Operations, EUSL, Vantharumoolai, Chenkalady. Tel. 065 2059393.
3. Additional details are provided in the Bidding Documents.
4. A completed set of bidding documents in English Language may be purchased by interested bidders on the submission of a written application by Bidder himself or by bidders' representatives to the address Deputy Director, Procurement, OTS AHEAD Operations, Eastern University, Sri Lanka and upon payment of non-refundable fee of LKR 5,000/= (Five Thousand only) per procurement document, from 9.00 am to 3.00 pm up to 09.12.2019. The mode of payment shall be either in cash or bank draft in favor of "AHEAD Project, Eastern University, Sri Lanka". The

Bidders can also download the bidding documents from the University Website i.e. www.esn.ac.lk. Those who are obtaining bidding documents from the University Website should submit the completed documents along with a Bank Draft drawn in favor of the "AHEAD Project, Eastern University, Sri Lanka" for Rs. 5,000/- (Five Thousand only) as non-refundable fee or the payments could be made at any branch of the Bank of Ceylon to the credit of Account No 82845710 Eastern University, Sri Lanka and the deposit slip should be attached with the original Bidding documents.

5. Bids in two copies indicating in Original and Duplicate, must be delivered to the address given below on or before 14.00 hour on 10.12.2019. Late bids will be rejected. Bids will be opened at 14.00 hours on the same day at the Board Room of the Eastern University, Sri Lanka.
6. All bids must be accompanied by a Bid Security. Value of the Bid Security as mentioned in the below table.

Lot No	Type of Items	Bid Security	Valid up to
1	Fourier-Transform Infrared (FT-IR) Spectrophotometer with all Accessories	2 % of the quoted price of the bidders	10.04.2020
2	Thermo Gravimetric Analyzer (TGA) with all Accessories	2 % of the quoted price of the bidders	10.04.2020

7. The title of the bid should be clearly mentioned in the top left corner of the bid submission envelope as specified below.

Procurement No. EUSL/OTS/AHEAD/R3/NCB/DOR/19/01

Chairman,
Department Procurement Committee,
Eastern University, Sri Lanka
Vantharumoolai
Chenkalady
2019.11.09

Section II. Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

[Instructions for completing the Bid Data Sheet are provided, as needed, in the notes in italics mentioned for the relevant ITB Clauses.]

ITB Clause Reference	A. General									
ITB 1.1	The Purchaser is ¹ : Eastern University, Sri Lanka(EUSL)									
ITB 1.1	<p>The name and identification number of the Contract are²:</p> <p style="text-align: center;">SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF LABORATORY EQUIPMENTS.</p> <p style="text-align: center;">PROCUREMENT No.: EUSL/OTS/AHEAD/R3/NCB/DOR/19/01</p> <p>The number, identification and names of the lots comprising this procurement are³:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Lot No</th> <th>Type of Items</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Fourier-Transform Infrared (FT-IR) Spectrophotometer with all Accessories</td> <td style="text-align: center;">01</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Thermo Gravimetric Analyzer (TGA) with all Accessories</td> <td style="text-align: center;">01</td> </tr> </tbody> </table> <p>Bidders have the option to bid either Lot 1 or Lot 2 OR both Lot 1 and Lot 2.</p>	Lot No	Type of Items	Quantity	1	Fourier-Transform Infrared (FT-IR) Spectrophotometer with all Accessories	01	2	Thermo Gravimetric Analyzer (TGA) with all Accessories	01
Lot No	Type of Items	Quantity								
1	Fourier-Transform Infrared (FT-IR) Spectrophotometer with all Accessories	01								
2	Thermo Gravimetric Analyzer (TGA) with all Accessories	01								
ITB 2.1	<p>The source of funding is⁴: GoSL (Credit/Grant #:6026-LK/8743-LK)</p> <p style="text-align: center;">ACCELERATING HIGHER EDUCATION EXPANSION AND DEVELOPMENT OPERATION (AHEAD)</p>									

¹ insert **complete** legal name of the Procuring Entity

² insert title of procurement and bid number reference of the Procuring Entity

³ Applicable only if separate contracts are awarded to different lots; if so insert lot reference and title of the each lot

⁴ insert the source of funding such as GOSL, World Bank, Asian Development Bank etc

ITB 4.4⁵	Foreign bidders are not allowed to participate in bidding.
	B. Contents of Bidding Documents
ITB 7.1	For <u>Clarification of bid purposes</u> only, the Purchaser's address is: Deputy Director Procurement, OTS/AHEAD Project, OTS Office, Eastern University, Sri Lanka, Vantharumoolai, Chenkalady. Tel: 065-2059393 E-mail: ddp_ots@esn.ac.lk
	C. Preparation of Bids
ITB 11.1 (e)⁶	The Bidder shall submit the following additional documents: Document for prove the Qualification requested in IFB. 1. Certified copy of Business Registration 2. Copy of the authorized letter for appointing as a Dealer or Agent 3. Evidence to Prove for last three years' experience 4. Copies of Financial Statements for last two years. (Years of 2018/2017, 2017/2016 and 2016/ 2015) 5. Average Turnover for last three years should be equal or more than Rs. 150 Million
ITB 14.3⁷	The bidders may quote to Supply, Installation, Commissioning and Maintenance of Laboratory Equipments.
ITB 15.1⁸	The Bidder shall quote: Sri Lankan Rupees only. (LKR)
ITB 17.3⁹	Period of time the Goods are expected to be functioning for minimum Five years
ITB 18.1 (b)	After sales service is: Required

⁵ Insert only for foreign funded projects or only when foreign bidders are allowed to participate under GOSL funded projects.

⁶ If no additional documents are required may delete this row

⁷ Insert only if bidders are allowed to quote less than 100% of items in a lot or less than 100% of the quantity for each item.

⁸ Delete if *the bidders are not allowed to quote in currencies other than Sri Lankan Rupees*

⁹ Insert only if required; if so insert *duration*

ITB 19.1¹⁰	The bid shall be validity until. 10.04.2020												
ITB 20.1	Bid shall include a Bid Security (issued by a commercial bank registered in Sri Lanka) included in Section IV Bidding Forms												
ITB 20.2¹¹	<p style="text-align: center;">The amount of the Bid Security shall be:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Lot No</th> <th style="width: 55%;">Type of Items</th> <th style="width: 15%;">Bid Security</th> <th style="width: 20%;">Valid up to</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Fourier-Transform Infrared (FT-IR) Spectrophotometer with all Accessories</td> <td style="text-align: center;">2 % of the quoted price of the bidders</td> <td style="text-align: center;">10.04.2020</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Thermo Gravimetric Analyzer (TGA) with all Accessories</td> <td style="text-align: center;">2 % of the quoted price of the bidders</td> <td style="text-align: center;">10.04.2020</td> </tr> </tbody> </table>	Lot No	Type of Items	Bid Security	Valid up to	1	Fourier-Transform Infrared (FT-IR) Spectrophotometer with all Accessories	2 % of the quoted price of the bidders	10.04.2020	2	Thermo Gravimetric Analyzer (TGA) with all Accessories	2 % of the quoted price of the bidders	10.04.2020
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2	Thermo Gravimetric Analyzer (TGA) with all Accessories	2 % of the quoted price of the bidders	10.04.2020										
	D. Submission and Opening of Bids												
ITB 22.2 (c)	The inner and outer envelopes shall bear the following identification marks ¹² : “SUPPLY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF LABORATORY EQUIPMENTS. ”												
ITB 23.1	<p>For bid submission purposes, the Purchaser’s address is:</p> <p style="text-align: center;">The Chairman Department Procurement Committee Eastern University, Sri Lanka Vantharumoolai Chenkalady Tel. 0652059393</p> <p>The deadline for the submission of bids is: Date: 10.12.2019 Time: 14.00 hours (02.00 p.m.)</p>												
ITB 26.1	<p>The bid opening shall take place at:</p> <p style="text-align: center;">Board Room Senate Building Eastern University, Sri Lanka, Vantharumoolai, Chenkalady.</p> <p>Date: 10.12.2019 Time: <i>Immediately after the bid closing time of 14.00 hours (02.00 p.m.) of same date</i></p>												

¹⁰ insert day, month, and year, i.e. 16 September, 2006

¹¹ Delete if BDS ITB 20.1 (b) is selected

¹² insert the name and/or number that must appear on the bid envelope to identify this specific bidding process

E. Evaluation and Comparison of Bids	
ITB 34.1	Domestic preference <i>shall not</i> be a bid evaluation factor.
ITB 35.3(d)	The final price of the Price Schedule will be considered as the Bid Price (Subject to any adjustment if required)
ITB 35.4¹³	<p>The following factors and methodology will be used for evaluation:</p> <ul style="list-style-type: none"> a. Fully compliance with technical specification & all other bidding conditions b. Fully compliance to the mandatory item in the specification c. Certificate of Business Registration d. VAT registration Certificate. e. Authorization letter from the manufacturer f. Spares should be available at least for near 10 years past or future. g. Should supply with operating manual and service manual. h. After sales services should be handled by local agents. (Should provide training certificates of the person who handle the services and repairs) i. Country of Origin should be stated j. Previous experience for the quoted model with customers list (Please provide the reference in local government Universities or Institutes) k. Quoted brand should be more than 2 years in Sri Lankan Market. Bidder must be attached the documentary Evidence.
ITB 35.5	Bidders have the option to bid either Lot 1 or Lot 2 OR both Lot 1 and Lot 2.
F. Others	
Pre bid meeting with bidders who collect the bidding documents will be held on 04.12.2019 at 2:30 PM in the OTS/AHEAD Office, EUSL.	

¹³ Insert only if required

Section IV. Bidding Forms

Table of Forms

Bid Submission Form	
Price Schedule:.....	
Bid Security (Guarantee)	
Bid-Securing Declaration	
Manufacturer's Authorization	

Bid Submission Form

[Note: the purchaser is required to fill the information marked as “” and delete this note prior to selling of the bidding document]*

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*
No.: *[insert number of bidding process]*

To: *[* insert complete name of Purchaser]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[insert the number and issuing date of each Addenda]*;
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[* insert a brief description of the Goods and Related Services]*;
- (c) The total price of our Bid without VAT, including any discounts offered is: *[insert the total bid price in words and figures]*;
- (d) The total price of our Bid including VAT, and any discounts offered is: *[insert the total bid price in words and figures]*;
- (e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 23.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 43 and CC Clause 17 for the due performance of the Contract;
- (g) We have no conflict of interest in accordance with ITB Sub-Clause 4.3;
- (h) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared blacklisted by the National Procurement Agency;
- (k) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (l) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed: *[insert signature of person whose name and capacity are shown]*
In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

Name: *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Price Schedule

*[The Bidder shall fill in these Price Schedule in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]*

PRICE SCHEDULE

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
Line Item No.	Description of Goods or related services	Qty and unit	Goods and related Services offered within Sri Lanka (in Sri Lankan Rupees)						
			Unit price (inclusive of duties, sales and other taxes) Excluding VAT	Price per line item (Col. 3x4)	Inland transportation, insurance and other related services to deliver the goods to their final destination if not included under column 4	Total Price Excluding VAT (Col 5+6)	Discounted Total price (if any) excluding VAT	VAT	Total Price Including VAT (Col. 7 or 8+9)
Lot 1	Fourier-Transform Infrared (FT-IR) Spectrophotometer with all Accessories	01 No							
Sub Total for Lot 1									
Lot 2	Thermo Gravimetric Analyzer (TGA) with all Accessories	01 No							
Sub Total for Lot 2									
Total									

Bid Guarantee

[Note: the purchaser is required to fill the information marked as “” and delete this note prior to selling of the bidding document]*

[this Bank Guarantee form shall be filled in accordance with the instructions indicated in brackets]

----- *[insert issuing agency’s name, and address of issuing branch or office]* -----

***Beneficiary:** ----- *[name and address of Purchaser]*

Date: ----- *[insert (by issuing agency) date]*

BID GUARANTEE No.: ----- *[insert (by issuing agency) number]*

We have been informed that ----- *[insert (by issuing agency) name of the Bidder; if a joint venture, list complete legal names of partners]* (hereinafter called "the Bidder") has submitted to you its bid dated ----- *[insert (by issuing agency) date]* (hereinafter called "the Bid") for the supply of *[insert name of Supplier]* under Invitation for Bids No. ----- *[insert IFB number]* (“the IFB”).

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we ----- *[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- *[insert amount in figures]* ----- *[insert amount in words]*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter “the ITB”); or
- (c) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the Bidder was unsuccessful, otherwise it will remain in force up to ----- *(insert date)*

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date. _____

[signature(s) of authorized representative(s)]

Bid-Securing Declaration

[Note: the purchaser is required to fill the information marked as “*” and delete this note prior to selling of the bidding document]

[The **Bidder** shall fill in this form in accordance with the instructions indicated in brackets]

Date: -----[insert date by bidder]

*Name of contract -- [insert name]

*Contract Identification N^o: -----[insert number]

*Invitation for Bid No.: ----- insert number]

*To: Vice Chancellor, EUSL

We, the undersigned, declare that:

1. We understand that, according to instructions to bidders (hereinafter “the ITB”), bids must be supported by a bid-securing declaration;
2. We accept that we shall be suspended from being eligible for contract award in any contract where bids have being invited by any of the Procuring Entity as defined in the Procurement Guidelines published by National Procurement Agency of Sri Lanka, for the period of time of *three years* starting on *the latest date set for closing of bids of this bid*, if we:
 - (a) withdraw our Bid during the period of bid validity period specified; or
 - (b) do not accept the correction of errors in accordance with the Instructions to Bidders of the Bidding Documents; or
 - (c) having been notified of the acceptance of our Bid by you, during the period of bid validity, (i) fail or refuse to execute the Contract Form, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the ITB.
3. We understand this bid securing shall expire if we are not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the bidder was unsuccessful; or (ii) twenty-eight days after the expiration of our bid.
4. We understand that if we are a JV, the Bid Securing Declaration must be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed [insert signature(s) of authorized representative] In the Capacity of [insert title]

Name [insert printed or typed name]

Duly authorized to sign the bid for and on behalf of [insert authorizing entity]

Dated on [insert day] day of [insert month], [insert year]

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]

Date: *[insert date (as day, month and year) of Bid Submission]*
No.: *[insert number of bidding process]*

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Section V. Schedule of Requirements

Contents

1. List of Goods and Delivery Schedule
2. List of Related Services and Completion Schedule
3. Technical Specifications
4. Drawings
5. Inspections and Tests

1. List of Goods and Delivery Schedule

[The Purchaser shall fill in this table, with the exception of the column “Bidder’s offered Delivery date” to be filled by the Bidder]

Line Item N°	Description of Goods	Quantity	unit	Final (Project Site) Destination as specified in BDS	Delivery Date ¹		
					Earliest Delivery Date	Latest Delivery Date	Bidder’s offered Delivery date <i>[to be provided by the bidder]</i>
<i>[insert item No]</i>	<i>[insert description of Goods]</i>	<i>[insert quantity of item to be supplied]</i>	<i>[insert unit for the quantity]</i>	<i>[insert place of Delivery]</i>	<i>[insert the number of days following the date of effectiveness the Contract]</i>	<i>[insert the number of days following the date of effectiveness the Contract]</i>	<i>[insert the number of days following the date of effectiveness the Contract]</i>
Lot 1	Fourier-Transform Infrared (FT-IR) Spectrophotometer with Accessories	01	No	OTS/ AHEAD operations Office- EUSL		On or before 90 days from the date of purchase order	
Lot 2	Thermo Gravimetric Analyzer (TGA) with all Accessories	01	No			On or before 90 days from the date of purchase order	

¹ applicable only if delivery is considered for evaluation. If not only one column “Delivery Date” duly filled by the Purchaser is required

2. List of Related Services and Completion Schedule

[This table shall be filled in by the Purchaser. The Required Completion Dates should be realistic, and consistent with the required Goods Delivery Dates]

Service	Description of Service	Quantity ¹	Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>[insert Service No]</i>	<i>[insert description of Related Services]</i>	<i>[insert quantity of items to be supplied]</i>	<i>[insert unit for the items]</i>	<i>[insert name of the Place]</i>	<i>[insert required Completion Date(s)]</i>

1. If applicable

03. TECHNICAL SPECIFICATIONS

[The Technical specifications may be provided in the following format. The bidder shall fill the columns 6 and 7. Bidder’s failure to provide the information requested in the columns 6 and 7 may be a reason for the rejection of the bid. If any discrepancy is observed between the information provided by the bidder in the columns 6 and 7 and the other technical information attached to the bid, the information provided herein shall take precedence.]

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Line Item No ¹⁵	Description of Goods or Related Service ¹⁶	Sub Component ¹⁷	Technical Specifications and Standards			
			Purchaser’s Requirements		Bidder’s Offer	
			Detail¹⁸	Priority¹⁹	Yes(Y)/ No(N)	Remarks²⁰
Lot 1	Fourier-Transform Infrared (FT-IR) Spectrophotometer with Accessories	Make	(Please Specify)			
		Model	(Please Specify)			
		Country of Origin	(Please Specify)			
		Manufacturer Authorization	Bidder should submit manufacturer’s authorization			

¹⁵ Same as list of goods and Delivery schedule table

¹⁶ Same as list of goods and Delivery schedule table

¹⁷ insert identification name for sub-component

¹⁸ insert in detail specifications for sub-component

¹⁹ Mark the sub-components that the Purchaser will consider as critical during the evaluation as “C”

²⁰ If the bidder has stated ‘N’ in column 6 it is essential that bidder shall fill information of his offer against the sub-component under column 7. If the bidder has stated ‘Y’ in column 6, the bidder has the option of providing additional information of his offer, to establish that it conforms to the specifications given.

			certificate for quoted brand direct from Manufacture			
		Should be personal computer controlled high performance FTIR Spectrophotometer with following specifications.				
		Application	Suitable for QA/QC, Formulation, Research and Development & Laboratory purpose.			
			It should be able to analyze polymer active ingredients of samples without having KBr disc.			
		Wave number Range & Beam Splitter	Wave number Range for Mid-IR with high humidity option 500 cm ⁻¹ – 6000 cm ⁻¹			
			Must be ZnSe (non-hydroscopic) beam splitter and windows			
		Interferometer	Any suitable interferometer which will not change the alignment due to shock or movement with no need for dynamic alignment, required 10 years warranty. Optic should be gold coated.			

		Spectroscopic Performance & Optical Resolution	Optical resolution better than 0.80cm ⁻¹			
			Signal-to-noise ratio 52500:1(1 min measurement time, spectral resolution 4 cm ⁻¹)			
			Wave number repeatability @ 1,554 cm ⁻¹ : < 0.0005 cm ⁻¹			
			Wave number accuracy <0.05 cm ⁻¹ @ 1,554 cm ⁻¹			
		Interface between PC and FTIR	Ethernet is required as communication port and wireless communication should be available for usage in a glow box			
		Power supply	230 V, 50Hz			
		Optical Bench	Sample compartment should accommodate all standard sample accessories such as sample holder, liquid cell			
			Spectrometer optics are non-hygroscopic optics			
			High-throughput double pivot Michelson (with protective			

			cover) Interferometer mechanism			
			Ceramic Globar with electronic stabilization Source, expected life should be more than 5 years			
			DTGS / DLATGS Detector module			
			ZnSe (non-hydroscopic) beam splitter should be supplied with the system. Wave number 500cm^{-1} - 6000cm^{-1}			
			Universal ATR sampling kit to analyze solids, liquids, pastes, gels and intractable materials addressing the most common sampling needs.			
		Cells & Sample preparation kit	Demountable Liquid cell Kit			
			Universal cell holder for transmission spectral taking			
			Sample preparation kit, Evacuable Pellet Press for 13 mm pellets with accessories for Universal cell holder			

		Standard software real time analysis	Easy to use, full GLP complaint with validation facility. Software should include real time analysis (Multy tasking with maximum facility for spectral calculations, manipulations, corrections etc) and FTIR spectrometer operation/ control facility			
		Design	Flexible, maximum reliability for constant results, minimum component, and maintenance free which is not required consumables.			
		Infrared Source	More than 5 years life time of IR source. IR source shall be built with health monitoring intuitive software for simplifying in operation.			
		Validation	Automatic built in spectrophotometer validation facility is required.			
		PC and Printer	Branded Computer with License Software with Laser B/W Printer, Intel i5, 500GB HD,			

			4GB memory, Windows 7 or latest, 1 KVA Online UPS.			
		Documentation	PQ-OQ protocol templates and User manuals			
		Data library	Standard software + Library + Security			
		Purging should not be required and should have wireless communication and battery operation, in case of use in glow box or in the field				
		Other Requirements	3-years or higher Comprehensive Warranty (Please Specify)			
			Spares should be available at least for 10 years.			
			Should supply with operating manual and service manual.			
			After sales services should be handled by local agents (Should provide training certificates of the person who handle the services and repairs)			
			Previous experience for the quoted model with customers list (Please provide the reference			

			in local government universities or Institutes)				
Lot 2	Thermo Gravimetric Analyzer (TGA) with all Accessories	Make/ Brand	(Please Specify)				
		Model	(Please Specify)				
		Country of Origin	(Please Specify)				
		Manufacturer Authorization	Bidder should submit manufacturer's authorization certificate for quoted brand direct from Manufacture				
		Balance to be of top-loading design to allow ease of sample loading and operation					
		The furnace must be made of a material which is corrosion-resistant					
		An Integrated mass flow controller for monitoring and controlling purge flow rates must be included as standard					
		TGA should be able to use wide choice of gasses including air, oxygen, nitrogen, argon, etc as sample environment.					
		Operating temperature range	Should be 25°C to 1000°C or better				
		Temperature scanning/heating rate	up to 200°C/min or better				
		Balance measurement capacity range	should be up to 1300mg or better				
		Balance digital resolution	0.2µg or better				

		Balance sensitivity	1µg or better				
		Balance accuracy	±0.03% or better				
	Accessories and Items required for Complete System (Indicate the Price Separately)	Branded PC (Core i3 / 4GB Ram / 1Tb HDD) with 19-inch LED monitor					
		Branded Black and White laser Printer					
		Suitable UPS for Main unit, Chiller & PC /Printer					
		Electrically operated Chiller for Cooling purpose					
		Minimum 10 Ceramic Sample Pans (Volume 150µL or better)					
		Standard reference material should be quoted for TGA performance verification					
		Weight Calibration standards with certificates should be supplied					
		Temperature Calibration standards should be supplied					
		Operational Gasses	High Purity (99.995%) Nitrogen with dual stage regulator				
			High Purity (99.995%) Oxygen with dual stage regulator				
		List of consumables and spare parts with current prices					

		Major consumables for minimum 2 years operation should be included			
		Installation & Training	Installation and training should be provided for technical officers		
		Availability of Spare Parts	Manufacture should confirm the availability of spare parts and consumables for minimum 10 years.		
		Availability of Technical support team	Manufacture should confirm the availability of Technical support team and technical experience of the local agent		
		Warranty & Service	2-year Comprehensive or higher Comprehensive Warranty (Please Specify)		

5. Inspections and Tests

The following inspections and tests shall be performed: *[insert list of inspections and tests if any]*

Section VII. Contract Data

The following Contract Data shall supplement and / or amend the Conditions of Contract (CC). Whenever there is a conflict, the provisions herein shall prevail over those in the CC.

[The Purchaser shall select insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]

CC 1.1(i)	The Purchaser is ²¹ :
CC 1.1 (m)	The Project Site(s)/Final Destination(s) is/are ²² :
CC 8.1	For notices , the Purchaser's address shall be: Attention ²³ : Address: Telephone: Facsimile number: Electronic mail address:
CC 12.1	Details of Shipping and other Documents to be furnished by the Supplier are ²⁴ .
CC 15.1	<i>Sample provision[Select appropriately]</i> CC 15.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: A: For Goods offered within Sri Lanka Payment shall be made in Sri Lanka Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed. (i) On Delivery: Up to a maximum of Ninety (80) percent of the Contract Price, shall be paid on receipt of the Goods and upon submission of the documents specified in CC Clause 12.

²¹ Insert complete legal name of the Purchaser

²² Insert name(s) and detailed information on the location(s) of the site(s)

²³ insert full name and the designation of the officer, if applicable

²⁴ insert shipping details and other documents

	<p>(ii) On Acceptance: The remaining ten (20) percent of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the Purchaser.</p> <p>B: For Goods offered to be imported and supply²⁵:</p> <p><i>Option 1:</i></p> <p>Payment of foreign currency portion shall be made in²⁶ (___) in the following manner:</p> <p>(i) On Shipment: Eighty (80) percent of the Foreign currency portion of the Goods shipped shall be paid through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in Sri Lanka, upon submission of documents specified in GCC Clause 12.</p> <p>(iii) On Acceptance: Twenty (20) percent of the Foreign currency portion of Goods received shall be paid within thirty (30) days of receipt of the Goods upon submission of claim supported by the acceptance certificate issued by the Purchaser.</p> <p>Payment of local currency portion shall be made in Sri Lankan Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.</p> <p><i>Option 2:</i></p> <p>Payment of foreign currency portion shall be made in²⁷ (___) in the following manner:</p> <p>(i) Advance Payment: Thirty (30) percent of the Foreign currency portion shall be paid within thirty (30) days of signing of the Contract, and upon supplier opening of LC in favour of the Purchaser and upon submission of a advance payment guarantee for equivalent amount valid until the Goods are delivered and in the form provided in the bidding documents or another form acceptable to the Purchaser.</p> <p>(ii) On Delivery: Up to a maximum of Fifty (50) percent of the Foreign currency portion, shall be paid on receipt of the Goods and upon submission of the documents specified in CC Clause 12.</p>
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²⁵ select 'Option 1', 'Option 2' or 'Option 3

²⁶ currency of the Contract Price

²⁷ currency of the Contract Price

	<p>(iii) On Acceptance: Twenty (20) percent of the Foreign currency portion of Goods received shall be paid within thirty (30) days of receipt of the Goods upon submission of claim supported by the acceptance certificate issued by the Purchaser.</p> <p>Payment of local currency portion shall be made in Sri Lankan Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.</p> <p><i>Option 3:</i></p> <p>(i) On Delivery: Eighty (80) percent of the Foreign currency portion of the Goods shall be paid through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in Sri Lanka, upon the delivery of the goods to the final destination and upon submission of documents specified in GCC Clause 12.</p> <p>(ii) On Acceptance: Twenty (20) percent of the Foreign currency portion of Goods received shall be paid within thirty (30) days of receipt of the Goods upon submission of claim supported by the acceptance certificate issued by the Purchaser.</p> <p>Payment of local currency portion shall be made in Sri Lankan Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.</p>
CC 17.1	A Performance Security ²⁸
CC 25.1	The inspections and tests shall be ²⁹ :
CC 25.2	The Inspections and tests shall be conducted a ³⁰ t:
CC 26.1	The liquidated damage shall be ³¹ : ... % per week
CC 26.1	The maximum amount of liquidated damages shall be ³² : %

²⁸ insert "shall" or "shall not" be required

²⁹ insert nature, frequency, procedures for carrying out the inspections and tests

³⁰ insert name(s) of location(s)

³¹ insert number

³² insert number

Check List”

No	Required Specification	Bidder’s Offer			
		Conformity		Page No	Remark
		Yes	No		
1	Company Profile				
2	Business Registration				
3	VAT Registration				
4	List of Clients				
5	Past years’ experience in the industry				
6	Manufacturer Authorization				
7	Public Contract Act				
8	Bid Security				
9	Forms of Bids				
10	Price Schedule				
11	Tender Fee				
12	Financial Statement				
Status					

“Bidders must be filled above check List”