



BIDDING DOCUMENT

FOR

Supply of Laboratory/Field Equipment and Accessories to Environmental
Laboratory of
National Building Research Organisation

Contract No: NBRO/ESSD/PRO/19/005

.....

Name of Bidder



NATIONAL BUILDING RESEARCH ORGANIZATION
MINISTRY OF PUBLIC ADMINISTRATION, DISASTER MANAGEMENT & RURAL ECONOMIC AFFAIRS
99/1, JAWATTA ROAD, COLOMBO 5.

TEL : (011) – 2501834, (011) – 2500354, (011) – 2588946

FAX: (011) – 2502611, 589943 E-MAIL: nbro@sltnet.lk

web site: www.nbro.gov.lk



Invitation for Bids
Ministry of Public Administration, Disaster Management &
Rural Economic Affairs



Supply of Lab/Field Equipment & Accessories

1. The Chairman, Department Procurement Committee, National Building Research Organisation (**NBRO**) now invites sealed bids from eligible and qualified bidders for Supply of following equipment:

Bid No	Item Description	Bid Security (Rs)
NBRO/ESSD/PRO/19/005	Supply of Lab/Field Equipment and accessories for Environmental Laboratory	60,000.00

- 2 Bidding will be conducted through National Competitive Bidding Procedure.
- 3 Interested eligible bidders may obtain further information from Director (Finance), of NBRO, 99/1, Jawatta Road, Colombo 05 from 9.00 hrs to 15.00 hrs. from 17th July to 07th August 2019. Visit www.nbro.gov.lk for more details.
4. Sets of above Bidding Documents in English language may be purchased by interested bidders from the Finance Division on the submission of a written application to the Director General, National Building Research Organisation, Jawatta Road, Colombo 05 from 9.00 hrs to 15.00 hrs from 17th July to 07th August 2019, upon cash payment of a non-refundable fee of Rs 1,500.00. For each document, to the Cashier of NBRO.
5. Duly completed bids in duplicate enclosed in a security sealed cover and indicating name of the bid marked on the top left hand corner of the envelope and addressed to Chairman, Procurement Committee, National Building Research Organisation, 99/1, Jawatta Road, Colombo 05, shall be deposited in the tender box kept at the NBRO premises or sent under registered post to reach, **before the bid closing time of 13.00 hrs on 08th August 2019**. Late bids will be rejected. Bids will be opened soon after the closing of bids and the bidder or his authorized representative will be allowed to be present at the bid opening.

Each of the bids shall be accompanied by a Bid-Security, to the value specified in the Bidding document obtained from a reputed bank of Sri Lanka on the format given in the bidding document and valid for a period of 120 days from the closing date of bids (08.08.2019 – 05.12.2019) or by a cash deposit made to Cashier, NBRO.

Chairman/ Procurement Committee
National Building Research Organisation,
99/1, Jawatta Road, Colombo 05
Tel. 011-2588946

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.

ITB Clause Reference	A. General
ITB 1.1	The Purchaser is: National Building Research Organization
ITB 1.1	The name and identification number of the Contract are: Supply of Laboratory/Field Equipment and Accessories to Environmental Laboratory The number, identification and names of the lots comprising this procurement are: NBRO/ESSD/PRO/19/005
ITB 2.1	The source of funding is: Government of Sri Lanka
ITB 4.4	Foreign bidders <i>are not allowed to participate in bidding.</i>
	B. Contents of Bidding Documents
ITB 7.1	For <u>Clarification of bid purposes</u> only, the Purchaser's address is: Attention: Director, Finance Address: Finance Division, National Building Research Organization, 99/1, Jawatta Road, Colombo 05 Telephone: 011-2588946 Facsimile number: 011-2589943 Electronic mail address: nbro@slt.net.lk
	C. Preparation of Bids
ITB 11.1 (e)	The Bidder shall submit the following additional documents: <ol style="list-style-type: none"> 1. <i>Certificate of Business registration or incorporation of the company (Certified Copy);</i> 2. <i>Manuals of Lab/Field Equipment and Accessories</i> <p><i>The following shall be considered favorably:</i> <i>Manufacturer's authorization certificates for the items offered to justify the strength, quality and performance. Certification from international certification bodies is preferred.</i></p>

ITB 14.3	The bidders may quote following minimum quantities: Bidders are not allowed to quote less than 2 items
ITB 15.1	The bidder shall quote the local expenditure in Sri Lankan Rupees.
ITB 18.1 (b)	After sales service is: required
ITB 19.1¹	The bid shall be validity until 05.12.2019.(120 days from date of bid opening)
ITB 20.1	(a) Bid shall include a Bid Security (issued by bank acceptable to Central Bank of Sri Lanka) included in Section IV Bidding Forms
ITB 20.2²	The amount of the Bid Security shall be: Rs 60,000.00 <i>The validity period of the bid security shall be until 05.12.2019</i> (120 from date of bid opening) Bid Security shall be a Bank guarantee issued by a reputed bank acceptable to Central Bank of Sri Lanka or a cash deposit made to Cashier, NBRO.
	D. Submission and Opening of Bids
ITB 22.2 (c)	The inner and outer envelopes shall bear the following identification marks: Bid Name : Supply of Laboratory/Field Equipment & Accessories to Environmental Laboratory Identification No : NBRO/ESSD/PRO/19/005
ITB 23.1	For bid submission purposes, the Purchaser's address is: Attention: Chairman/ Procurement Committee Address: National Building Research Organization, 99/1, Jawatta Road, Colombo 05 The deadline for the submission of bids is: Date: 08 .08.2019 Time: 13.00 hrs.
ITB 26.1	The bid opening shall take place at: Auditorium of NBRO Address: 99/1, Jawatta Road, Colombo 05. Date: 08.08.2019 Time: 13.00 hrs

	E. Evaluation and Comparison of Bids
ITB 34.1	Domestic preference “ <i>shall not</i> ” be a bid evaluation factor.
ITB 35.3(d)	<p>The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria:</p> <p>As defined in Evaluation and Qualification Criteria of Section III</p>
ITB 35.4³	<p>The following factors and methodology will be used for evaluation:</p> <ul style="list-style-type: none"> • Arithmetical errors; • Omissions • Delivery schedule or time for completion; • Efficiency of the equipment; • Capacity; • Spare parts; • After sale services; • Payment schedule; • Operating costs; • Financial capability to supply equipment; • Past Experience and qualifications of the lowest evaluated and substantially responsive bidders; • Manufacturer’s authorization to demonstrate that the bidder is duly authorized to supply the goods

Section III. Evaluation and Qualification Criteria

This Section complements the Instructions to Bidders. It contains the criteria that the Purchaser use to evaluate a bid and determine whether a Bidder has the required qualifications. No other criteria shall be used.

Contents

1. Evaluation Criteria (ITB 35.3 {d})
2. Evaluation Criteria (ITB 35.4
3. Multiple Contracts (ITB 35.5)
4. Post qualification
- 5 Domestic Preference (ITB 34.1)

1. Evaluation Criteria (ITB 35.3 (d))

The Purchaser's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB Sub-Clause 14.6, one or more of the following factors as specified in ITB Sub-Clause 35.3(d) and in BDS referring to ITB Sub-Clause 35.3(d), using the following criteria and methodologies.

(a) Delivery schedule

Bids with deviations to the Delivery and Completion Schedule shall be treated as non-responsive and rejected.

(b) Deviation in payment schedule

Bidders are not permitted to state an alternative payment schedule.

(c) Cost of major replacement components, mandatory spare parts, and service

Criteria Requirement	Documents Submission Requirement
The list of giving full particulars, including quantities, available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period 02 years following commencement of the use of the goods by the Purchaser	Form 2

The Purchaser will make its own assessment of the cost of these deviations or deficiencies for the purpose of ensuring fair comparison of Bids.

(d) Specific additional criteria detailed in BDS Sub-Clause 35.3(d)

i) Availability in the Purchaser's Country of spare parts and after sales services for equipment offered in the bid.

Criteria Requirement	Documents Submission Requirement
Whenever necessary Spare parts should be supplied or shall be available in Sri Lanka and after sales services for equipment is required	Form 2

ii) Projected operating and maintenance costs.

Criteria Requirement	Documents Submission Requirement
The list of giving operating and maintenance costs of the Lab/Field Equipment	Form 3

2. Evaluation Criteria (ITB 35.4)

- i) The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 17, to confirm that all requirements specified in Section V, Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation;
- ii) All substantially responsive bids will be compared to determine the lowest-evaluated bid, in accordance clause 35 of Section I Instructions to Bidders;
- iii) Qualifications of the bidder will be determined based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 18.

3 Multiple Contracts (ITB 35.5)3

Not Applicable.

4. Post qualification Requirements (ITB 37.2)

After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 36.1, the Purchaser shall carry out the post qualification of the Bidder in accordance with ITB Clause 37, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

(a) Financial Capability

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

Criteria Requirement	Documents Submission Requirement
Submission of audited balance sheets and income statements or, other financial statements acceptable to the Purchaser, for the last three (3) years to demonstrate the current soundness of the applicant's financial position. As a minimum, a Bidder's net worth calculated as the difference between total assets and total liabilities should be positive	Form - 4 with attachments

(b) Experience and Technical Capacity

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

Criteria Requirement	Documents Submission Requirement
The Bidder shall include data and information in its Bid showing that the Bidder has successfully completed contracts of scope of supply and complexity comparable to the proposed Contract, over a two year period ending on the deadline for bid submission.	Form - 5 with attachments

5. Domestic Preference (ITB 34.1)

Not Applicable

Section IV. Bidding Forms

Table of Forms

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

Bid Submission Form

[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: **Chairman, Procurement Committee, National Building Research Organization**

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
Supply of Laboratory/Field Equipment and Accessories to Environmental Laboratory
- (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

[illegible]

Contd

1	2	3	4	5	6	7	8	9	10	11
Line Item No.	Description of Goods	Unit	Qty	Unit price (inclusive of duties, sales and other taxes)Excluding VAT (Rs.)	Price per line item (Col. 3x4) Rs.	Total Price Excluding VAT Rs.	Discount (If any) Rs.	Discounted Total price (if any) excluding VAT	VAT	Total Price Including VAT Rs. (Col. 7+10 or 9+10))
8.0	Iron Comparator Test kit	Nos	01							
9.0	One door Bottle cooler	Nos	01							
10.0	Stainless steel 500µm Test Sieve	Nos	01							
11.0	Personal air sample	Nos	05							
12.0	Fine particulate sampler	Nos	02							
13.0	Portable CO ₂ and CO Analyzer	Nos	02							
14.0	Vibration meter	Nos	01							
15.0	Flue gas analyzer	Nos	01							
16.0	Multi gas analyzer	Nos	01							
17.0	NMVOC meter	Nos	01							

<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>	<i>11</i>
Line Item No.	Description of Goods	Unit	Qty	Unit price (inclusive of duties, sales and other taxes)Excluding VAT (Rs.)	Price per line item (Col. 3x4) Rs.	Total Price Excluding VAT Rs.	Discount (If any) Rs.	Discounted Total price (if any) excluding VAT	VAT	Total Price Including VAT Rs. (Col. 7+10 or 9+10))
18.0	CH ₄ Meter	Nos	01							
19.0	Wind direction and wind speed meter	Nos	01							
20.0	Laser distance meter	Nos	01							
21.0	Noise Meter	Nos	01							

Bid Guarantee

[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: National Building Research Organization, 99/1, Jawatta Road, Colombo 5.

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)]

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 delivery period shall start as of the date of contract signing.

Bidder should complete his obligations under this bid (including obligations under related services, i.e. delivery) within **45 days** from the date of signing the contract. Bids with delivery period more than the period specified above shall be treated as non-responsive and rejected.

If the successful bidder fails to complete his obligations under this contract within the period specified above, the purchaser may deduct a sum equivalent to the percentage specified in GCC 27.1 from the Contract price, as liquidated damages

Item No.	Description of Goods or Related Services	Unit	Qty	Location	Required Arrival Date of Goods or Completion Date for Related Services	Bidder's Offered Delivery Date (to be provided by the bidder)
1.0	pH Meter with pH Buffers (Portable)	Nos	01	NBRO	45	
2.0	Turbidity Meter with Turbidity Standards (Portable)	Nos	02	NBRO	45	
3.0	Micropipettes	Nos	01	NBRO	45	
4.0	Fluoride Meter (Portable)	Nos	01	NBRO	45	
5.0	Chloride Iron Selective Electrode (Portable)	Nos	01	NBRO	45	
6.0	Sulphide Selective Electrode (Portable)	Nos	01	NBRO	45	
7.0	Residual Chlorine Comparator Test kit	Nos	01	NBRO	45	

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8.0	Iron Comparator Test kit	Nos	01	NBRO	45	
9.0	One door Bottle cooler	Nos	01	NBRO	45	
10.0	Stainless steel 500µm Test Sieve	Nos	01	NBRO	45	
11.0	Personal air sample	Nos	05	NBRO	45	
12.0	Fine particulate sampler	Nos	02	NBRO	45	
13.0	Portable CO ₂ and CO Analyzer	Nos	02	NBRO	45	
14.0	Vibration meter	Nos	01	NBRO	45	
15.0	Flue gas analyzer	Nos	01	NBRO	45	
16.0	Multi gas analyzer	Nos	01	NBRO	45	
17.0	NMVOC meter	Nos	01	NBRO	45	
18.0	CH ₄ Meter	Nos	01	NBRO	45	
19.0	Wind direction and wind speed meter	Nos	01	NBRO	45	
20.0	Laser distance meter	Nos	01	NBRO	45	
21.0	Noise Meter	Nos	01	NBRO	45	

2. List of Related Services and Completion Schedule

Contd;

3. Technical Specifications

[The Technical specifications may be provided in the following format. The bidder shall fill the columns 5 and 6. Bidder's failure to provide the information requested in the columns 5 and 6 be a reason for the rejection of the bid. If any discrepancy is observed between the information provided by the bidder in the columns 5 and 6 and the other technical information attached to the bid, the information provided herein shall take precedence.]

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
1.0	pH Meter with pH Buffers (Portable)	Warranty period	Should indicate		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Specification:			
		Display	Backlit LCD display indicates pH, temp		
		Housing	Waterproof (IP66)		
		Calibration	Auto calibration with choice of buffer (3 points)		

Contd;

Item 1.0 Contd..

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
		Power	Rechargeable Battery (AAA/AA)		
		pH Range Resolution Accuracy	1.00-14.00 0.01 ±0.02		
		Temperature Range Resolution Accuracy	0 to 50 °C 0.1 °C ±0.4 °C		
		Auto-Buffer-Recognition	pH : 4.00, 7.00, 10.00		
		Millivolts Range Resolution Relative Accuracy	±1999.9mV 0.1mV 0.1mV		
		Calibration	Auto calibration with choice of NIST traceable turbidity standards		
		Other	pH electrode with built-in Temperature sensor		
		Standard Accessories	Combination pH Electrode / ATC Probe NIST traceable buffer for 3 points		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Item 2.0 Contd..

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
2.0	Turbidity Meter with Turbidity Standards (Portable)	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	02		
		Specification:			
		Display	Backlit LCD		
		Power	Rechargeable Battery (AAA/AA)		
		Units	NTU		
		Accuracy	Maximum ± 2 % of the reading		
		Range	0.0 to 1000 NTU		
		Repeatability	Maximum ± 1 %		

Contd;

Contd..

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
		Standard Accessories	Case assembly, Alkaline Rechargeable batteries, sample cells and NIST traceable Turbidity Standards.		
		Response Time	6 S in normal reading mode		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Item 3.0 Contd..

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
3.0	Micropipettes	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Specification:			
		Basic features	Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes.		
		Accessories	Micro tips (100 Pack)		
		Variable volume	100 µL-1000 µL		
		Increments	5 µL		
		Accuracy	Maximum (±):0.9 -0.6 %		
		Precession	Maximum (±): 0.3-0.2%		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Contd;

Item 4.0 Contd..

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
4.0	Fluoride Meter (Portable)	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Specification:			
		Range	Option-01:0.05 mg/L-5 mg/L Option-02:0.05 mg/L-10 mg/L		
		Resolution	0.001 mg/L		
		Accuracy	±5% of reading or ±0.02 mg/L (ppm) fluoride (with ±3°C from calibration temperature)		
		Temperature range	0.0 to 100.0°C		

Item 4.0 Contd..

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
		Temperature Resolution	0.1°C		
		Temperature Accuracy (@25°C)	±0.2°C; ±0.4°F (excluding probe error)		
		Temperature Compensation	automatic, -5 to 55°C (with temperature probe)		
		Temperature Probe	stainless steel temperature probe with 1 m (3.3') cable (not included)		
		Calibration	Automatic 3 points calibrations		
		Fluoride Standards	1000 mg/L (500mL)		
		Electrode/Probe	Minimum 1 m cable length		
		Battery Type / Life	1.5V AAA (3) / approximately 200 hours of continuous use.		
		Environment	0 to 50°C (32 to 122°F); RH max 100%		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
5.0	Chloride Iron Selective Electrode (Portable)	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Specifications:			
		Housing	Water Resistant		
		Range	1.0 mg/L – 500mg/L		
		Resolution	0.1 mg/L		
		Precision	±0.5 mg/L ±6% of reading		
		Power	Rechargeable Battery (AAA/AA)		
		Calibration	Calibration standards to cover the range of the meter (minimum 3 points)		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
		Catalogues	Should provide		
6.0	Sulphide Selective Electrode (Portable)	Warranty Period	At least three years		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Housing	Water Resistant		
		Range	0.1 mg/L to 10 mg/L		
		Temperature Range	0°C-100°C		
		Accessories	Sulphide antioxidant buffer, Electrolyte fill solution (250mL), and sulphide standards.		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer.		
		Catalogues	Should provide		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
7.0	Residual Chlorine Comparator Test kit	Warranty Period	At least three years		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Item	Comparator in security plastic case		
		Range	0.1mg/L to 2.0mg/L		
		Accessories	Color disc, Glass cell with lid, volume 10ml		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
8.0	Iron Comparator Test kit	Warranty Period	At least three years		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Item	Comparator in security plastic case		
		Range	0.1mg/L to 2.0mg/L		
		Accessories	Color disc, Glass cell with lid, volume 10ml		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
9.0	One door Bottle cooler	Warranty Period	At least three years		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Volume	700 L		
		Temperature Range	0°C-10°C		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
10.0	Stainless steel 500µm Test Sieve	After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Material	First class stainless steel		
		Aperture sizes	500µm		
		Shape of aperture	Square		
		Sieve Height	5cm-10cm		
		Filter Screening Fabric Processing	Woven		
		Required Standard	ASTM/ISO		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Catalogues	Should provide		

Contd;

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Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
11.0	Personal air sample	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	05		
		Specification:			
		Components	Sealed internal components, diaphragm pump		
		Flow rate	Should be adjustable		
		Working flow Range	500–3000 cc/min (0.5–3.0 LPM)		
		Operation Duration	More than 8 hours at 3.0 LPM		
		Battery	Rechargeable, (Preferable - Nickel-Cadmium battery),		
		Battery Charger & time	Should provide, full charge within 16 hours		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Calibration Certificates and Traceability	Should Provide calibration certificate including traceability		
		Catalogues	Should provide		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
12.0	Fine particulate sampler	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	02		
		Specification:			
		Fine particulate Sampler	Used for ambient air sampling for PM10 & PM2.5		
		PM2.5 Separator	USEPA Standardized PM2.5 WINS impactor		
		PM10 Separator	USEPA Standardized PM10 ambient particle inlet assembly with sample tube		
		Filter media	47 mm filter cassette housed in filter holder assembly		
		Flow rate and indicator	Constant flow rate maintains by butterfly valves in the Ranging 16-17 lpm \pm 0.5 % with the filter media & inbuilt flow rate indicator		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions, Specifications and Standards		
12.0		Calibration	Should provide calibration certificate with traceability		
		Temperature measurement	Ambient & filter temperature measurement range:-5°C to 50°C with a resolution of 0.1°C		
		Barometric pressure measurement	Built in sensor, Display the current pressure values, range 600-800mmHg with a resolution of 1mm Hg		
		Timer system	Programmable timer with automatic start & stop provision		
		Leak test	Complete with an Internal and external leak check with a resolution of 1 mm Hg		
		Display	Large display with a simple user interface with volumetric flow, ambient temperature, temperature, barometric pressure		
		Vacuum pump	Diaphragm pump working on 230 V		
		Power	230 V AC \pm 10%, 50 Hz		
		Data transferring	USB interface for in-field data transferring		
		Filter cassettes	50 pieces of clear disposable plastic filter cassette		
		Silicon oil for impactor (100 ml)	10 bottles of 100ml silicon oil		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
		Gaseous sampling attachment	Complete with gaseous sampling attachment with 4 tubing and flow controllers for each sampler		
		Authorization letter	Supplier should submit original authorization letter from the manufacturer		
		Calibration Certificates and Traceability	Should Provide the calibration Certificates and Traceability		
		Catalogues	Should provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
13.0	Portable CO ₂ and CO Analyzer	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	02		
		Measuring Technology	NDIR techniques		
		Measuring parameters	CO ₂ -(0-10,000 ppm)-with 1 ppm increments		
			CO-(0 to 1000 ppm) with 1ppm increments		
		Operating Conditions	0-40 °C temperature and 0-95 %humidity		
		Display	Digital display with back light. Maximum and minimum values indicate		

Contd;

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
13.0		Data storage	Data storage facility with 1000 readings + 270 events		
		Power	Rechargeable battery or AA battery		
		Data logging facility	Should have data logging facilities		
		Calibration Certificates and Traceability	Should Provide the calibration Certificates and Traceability		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
14.0	Vibration meter	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Instrument	Tri axial ground vibration and air blast overpressure meter		
		Complied Standard- BS or ISO	Standards of BS 7482 Part 1 & Part 3 or latest revision.		
		Measurement Parameters & Range	Velocity :less than 0.10 - 200 mm/s Frequency : less than 1 Hz – 250 Hz ABOP : less than 90 – 140 dB(L)		
		Accuracy	Less than 5 % of the reading		
		Measuring Parameter	Velocity/ Acceleration, frequency, sound (ABOP)		
		Software Requirements	Relevant PC software including setup, archiving, export and reporting compatible with Windows 2000/windows XP or latest		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
14.0	Vibration meter	Power requirements	Inbuilt or external rechargeable battery with charger.		
		Software	Complete with Data lodging software, post processing software etc. conforms to the relevant standards or latest revision of those standards.		
		Accessories	Caring case Printer (inbuilt or external) Over pressure microphone		
		Calibration Certificates and Traceability	Should Provide the calibration Certificates and Traceability		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
15.0	Flue gas analyzer	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Measuring parameters and ranges	CO-(0-2000 ppm)		
			O2- (0-21% v/v)		
			CO2-(0-25% v/v)		
			NOx-(0-1000 ppm)		
			SO2-(0-1000 ppm)		
			Temperature – (30 – 500 0C)		
			Flow velocity (m/s)		
			Pressure and Draft measurement		
			Differential pressure measurements		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
			Excess Air		
			Combustion efficiency		
		Relevant Accessories	Comply with relevant sensors		
			Gas probe holder,		
			Regular gas probes with 50 numbers of additional dust filters		
			Thermal Printer		
			Differential pressure measurement unit		
		Power supply	Rechargeable battery (alkaline or Ni-Cd or Ni-MH)		
		Display	Backlight Graphical LCD		
		Gas pump	Diaphragm, rate more than 0.6 l/min.		
		Calibration Certificates and Traceability	Should Provide the calibration Certificates and Traceability		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
16.0	Multi gas analyzer	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Parameters and range	CO2, NDIR sensors (range 0-30000 ppm or more, Resolution-10.0 ppm)		
			CO, NDIR sensor (range 0-1000 ppm or more, Resolution- 10.0 ppm)		
			O2, Electrochemical sensors (range 0-21% vol, Resolution-0.1%)		
			HCOH ; Electrochemical sensor (range 10 – 500 ppb, Resolution-10 ppb)		
			H2S: Electrochemical sensors (range 0-2000 ppm), Resolution-10 ppm		
		Display:	Monochrome graphical LCD		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
16.0	Multi gas analyzer	Power supply	Rechargeable battery or Alkaline (minimum 6 hr run time)		
		Sampling	Built in pump or diffusion		
		Data Logging	Continuous data logging, User Configuration data logging intervals		
		Communication and data download	Should be indicated		
		Accessories	Sampling kit and calibration kit with calibration gas, Battery charger		
		Calibration Certificates and Traceability	Should Provide		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
17.0	NMVOC meter	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		VOC Measurement Range / Resolution:	0 to 50 ppm / 0.01 ppm		
		VOC Warmup Time:	5 minutes first use, 2 minutes thereafter		
		VOC Sensor Type / Longevity	PID Or Metal-oxide semiconductor / 7 years (typical)		
		RH Measurement Accuracy / Resolution:	±5% of reading @ 25°C; ±7% of reading elsewhere in range / 0.1% RH		
		Data Logging Capacity	32,000 points		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
17.0	VOC meter	Display Type	Dual readout LCD		
		Auto Power Off Trigger	15 minutes of front-panel inactivity		
		Power Source	"AAA" batteries or included 110VAC adaptor		
		Calibration Certificates and Traceability	Should Provide		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
18.0	CH ₄ Meter	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Warranty Period	At least one year		
		Electrochemical sensor or other acceptable sensor	For CH ₄ (range 1000 ppm - 500,000 ppm or 0.1 - 50%)		
		Battery, options, Run time and recharge time	<ul style="list-style-type: none"> •Rechargeable Li ion ~ 12 hr (pumped) / 18 hr (diffusion) runtime, <6 hr recharge time •Extended duration Li ion ~ 18 hr (pumped) / 28 hr (diffusion) runtime, < 9 hr recharge time •Alkaline adapter with 4xAA batteries ~6 hr (pumped) 8 hr (diffusion) runtime 		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
18.0	CH ₄ Meter	Display	LCD Display		
		Sampling	Built-in pump or diffusion		
		Data logging	Continuous data logging User configurable data logging intervals		
		Accessories	Sampling kit and calibration kit with calibration gas		
		Calibration Certificates and Traceability	Should Provide		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Technical Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
19.0	Wind direction and wind speed meter	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Warranty Period	At least one year		
		Wind Velocity	0.4 ~ 45.0 m/s ; \pm (2% + 0.1m/s)		
		Direction	0 ~ 360°		
		Wave Height	0~14		
		Air Temperature	0 °C – 60 °C		
		Resolution	0.1		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
19.0	Wind direction and wind speed meter	Power Source	"AAA" batteries or included 110VAC adaptor		
		Calibration Certificates and Traceability	Should Provide		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
20.0	Laser distance meter	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Warranty Period	At least one year		
		Typical Measurement Tolerance	±1.0 mm (± 0.04 in)		
		Maximum Measurement Tolerance	±2.0 mm (±0.08 in)		

Contd;

Item No 20.0 Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
		Range at target plate	100 m / 330 ft		
		Typical Range	80 m / 260 ft		
		Range at unfavorable condition	60 m / 200 ft		
		Smallest unit displayed	1 mm / 1/32 in		
		Ø laser point at distances	60 mm @ 100 m		
		Measurement tolerance to laser beam	±0.2 °		
		Measurement tolerance to case	±0.2 °		
		Range	360 °		
		Compass accuracy	8 points (±22.5 °)		
		Automatic laser off	90 seconds		
		Automatic power off	180 seconds		
		Battery	AAA size, up to 5000 measurements		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
		Temperature	Storage:-25 °C to +70 °C Operation:0 °C to +40 °C		
		Maximum altitude	3500 m		
		Calibration Certificates and Traceability	Should Provide		
		Catalogues and software	Should Provide		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
21.0	Noise Meter	Warranty Period	At least one year		
		After sale Services	Should indicate		
		Country of origin	Should indicate		
		Manufacturer	Should indicate		
		Make & Model	Should indicate		
		Required quantity	01		
		Sound Level Meter	Precision Time Integrated Sound Level Meter complied to the requirement of IEC 60942:2017 and IEC-1:2013, type and class 1		
		Calibrator	Sound level meter calibrator that suitable for above sound level meter with calibration certificate valid for two years with international traceability.		
		Microphone Type for noise meter	Pre polarized Free field ½" (Open-circuit Sensitivity: 50mV/Pa) Normal Pre Amplifier Attenuation: 0.25dB (or approximate)		
		Wind screen	Wind screen for microphone for correction for wind		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
		Measuring Parameter	Time integrated Decibel levels (dB), Leq, LA, Lmax, Lmin, L90, L50 & L10 etc in selectable mode of Fast and slow		
		Measuring Range	Dynamic range : 35 dB - 130dB (A and C -weighted)		
		Display Type	color digital screen		
		In Put & Output Socket	Standards USB (on the go) Interface and other Standards In Put & Output Socket		
		PC Requirements	Standards USB (on the go) Interface and other Standards In Put & Output Socket		
		Power requirements	9V battery or preferably rechargeable pack with an extra battery.		
		Power requirements	9V battery or preferably rechargeable pack with an extra battery.		
		Software	Complete with internationally accepted noise prediction software package for post processing of data, conforms to the relevant standards or latest revision of those standards.		
		Type of Measuring	Environmental, Industrial, Road, Airport Noise Levels		
		Adjustable Tripod	Portable		

Contd;

1	2	3	4	5	6
Item No	Name of Goods or Related Services	Sub Component	Purchaser's Requirements	Bidder's Offer Yes/No	Information on Bidder's Offer
			Technical Descriptions and standards		
		Carrying case	Should portable and easy handling		
		Calibration Certificates and Traceability	Should Provide		
		Catalogues and software	Should Provide		

Contd;

4. Drawings

This Bidding Document does not include drawings.

Contd;

5. Inspections and Tests

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

Bidder shall demonstrate the relevant instruments to Laboratory Staff

Contd;

Form – 1

Bidder's Information Sheet*(Bidder shall fill following table)*

Bidder's Information	
Bidder's legal name	
In case of Joint Venture, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
Back listed Supplies	

Contd;

Have you been declared as a defaulted Supplier by NPA or any other Agency ? Yes/No
If yes, Provide details
Any Other

Contd;

Form - 2: Cost of major replacement components, mandatory spare parts, and service

[illegible]

Contd;

True copies of relevant documents/certificates and additional details if any shall be attached

Contd;

Form – 4(a) : Financial Situation

Financial Data for Previous 3 Years [SL Rs* Equivalent]		
Year 1: _____	Year 2: _____	Year 3: _____

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

Contd;

- ☐ Please attached copies of financial statements (balance sheets including all related notes, and income statements) for the last three years, as indicated above, complying with the following conditions.

 - All such documents reflect the financial situation of the Applicant or partner to a JV, and not sister or parent companies.
 - Historic financial statements must be audited by a certified accountant.
 - Historic financial statements must be complete, including all notes to the financial statements.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

True copies of relevant documents/certificates and additional details if any shall be attached

Contd;

Form – 4(b): Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts.

Financial Resources		
No.	Source of financing	Amount (SL Rs)
1		
2		
3		

Contd;

Form – 5 : Past Experience on Supply of Goods

Please indicate successfully completed contracts of scope of supply and complexity comparable to the proposed Contract, over a three year period ending on the deadline for bid submission.

Description	Year 2018	Year 2017	Year 2016
Name of the purchaser/s			
Name of the Item supplied			
Quantity Supplied			

Contd;

Contract price/s			
Duration according to the agreement			
Date of Commencement			
Actual date of completion			

True copies of relevant documents/certificates and additional details if any shall be attached

Contd;

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.

CC 1.1(i)	The Purchaser is: National Building Research Organization
CC 1.1 (m)	The Project Site(s)/Final Destination(s) is/are: 99/1,Jawatta Road,Colombo 05
CC 8.1	For <u>notices</u> , the Purchaser's address shall be: Attention: Director General Address: National Building Research, Organization, 99/1, Jawatta Road, Colombo 05. Telephone: 011-2588946 Facsimile number: 011-502611 Electronic mail address: <u>nbro@sltnet.lk</u>
CC 12.1	Details of Shipping and other Documents to be furnished by the Supplier are <i>Not applicable</i> .
CC 15.1	The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: Ten (10%) percent of the contract amount (excluding VAT) will be paid within 30 days of signing of the contract and upon submission of claim and an unconditional Bank Guarantee issued by a Bank which is acceptable to the purchaser for the equivalent amount valid until the goods are delivered and in the form provided in the bidding documents or another form acceptable to the purchaser.

Contd;

	<p>(ii) Ninty (90%) of the contract amount (excluding VAT) will be paid on submission of the following documents.</p> <p>(a) Duly signed and sealed Inventory Certificate issued by NBRO evidencing that the goods received are in satisfactory condition and demonstrations are performed properly.</p> <p>(b) Inspection certificate by a competent person/ committee appointed by NBRO.</p>
CC 17.1	A Performance Security shall be required
CC 17.3	Performance Security in an appropriate amount of not less than 10% (ten percent) of the estimated contract sum.
CC 25.1	
CC 25.2	The Inspections and tests shall be conducted at :National Building Research Organization,99/1,Jawatta Road,Colombo 05
CC 26.1	The liquidated damage shall be:0.5% per week
CC 26.1	The maximum amount of liquidated damages shall be 10% of contract price