



Republic of the Philippines
National Irrigation Administration
Quezon City

SUPPLEMENTAL NOTICE No. 1

to the

BID DOCUMENTS

for the

**SUPPLY, DELIVERY, INSTALLATION AND TESTING OF LABORATORY EQUIPMENT FOR
RESEARCH/SOILS AND WATER LABORATORY GROUP, IRRIGATION ENGINEERING CENTER
ITB No. BS-005-2020**

A. The modification is hereby made on the above-captioned Invitation:

1. Delivery Period for the above stated project is hereby modified from "90 calendar days for each lot" to "120 calendar days for each lot".
2. The Approved Budget for the Contract (ABC) is hereby modified to:

PARTICULARS	Approved Budget for the Contract
Lot1 – Material Testing Equipment	Php 7,701,000.00
Lot2 – Chemical Laboratory Equipment	Php 2,745,000.00
TOTAL	Php 10,446,000.0

3. Delete pages 3 up to 6 (Section I – Invitation to Bid) and replace it with Attachment Sheet No. 1.
4. Delete pages 40 up to 42 (Section III - Bid Data Sheet) and replace it with Attachment Sheet No. 2.
5. Delete page 62 (Section V – Special Conditions of the Contract) and replace it with Attachment Sheet No. 3.



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6. Delete pages 70 up to 78 (Section VII - Technical Specifications) of the Bidding Documents and replace it with Attachment Sheet No. 4.

All other terms and conditions remain unchanged.

For the guidance and information of all concerned.


Atty. AILYNE C. AGTUCA-SELDA
Chairperson, BAC-B

Section I. Invitation to Bid



Republic of the Philippines
National Irrigation Administration
Quezon City

INVITATION TO BID
SUPPLY, DELIVERY, INSTALLATION AND TESTING OF
LABORATORY EQUIPMENT FOR RESEARCH/SOILS AND
WATER LABORATORY GROUP, IRRIGATION ENGINEERING
CENTER ITB NO. BS-005-2020

1. The *National Irrigation Administration (NIA)*, through the *Corporate Operating Budget (COB) for FY 2020* intends to apply the sum of **Ten Million Four Hundred Forty Six Thousand Pesos (Php 10,446,000.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for ***Supply, Delivery, Installation and Testing of Laboratory Equipment for Research/Soils and Water Laboratory Group, Irrigation Engineering Center, to wit:***

PARTICULARS	Approved Budget for the Contract
Lot1 – Material Testing Equipment	Php 7,701,000.00
Lot2 – Chemical Laboratory Equipment	Php 2,745,000.00
TOTAL	Php 10,446,000.00

Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The *NIA* now invites bids for ***Supply, Delivery, Installation and Testing of Laboratory Machinery and Equipment for Research/Soils and Water Laboratory Group, Irrigation Engineering Center.*** Delivery period of the Goods required is ***One Hundred Twenty (120) calendar days for each lot.*** Bidders should have completed, within ***five (5) years*** from the date of submission and receipt of bids, a contract similar to the Project. For this purpose, similar contracts shall refer to:

Particulars	Similar Contracts
Lot1 – Material Testing Equipment	Supply and Delivery of Laboratory Equipment for Soils Classification
Lot2 – Chemical Laboratory Equipment	Supply and Delivery of Chemical Laboratory Equipment for Soils and Water Analysis

The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Interested bidders may obtain information from **BAC-B Secretariat, c/o Procurement Section, Procurement and Property Division, Ground Floor, NIA Bldg. A, EDSA, Diliman, Quezon City** and inspect the Bidding Documents at the address given below during office hours (8:00 AM – 5:00 PM).
5. A complete set of Bidding Documents may be acquired by interested Bidders on **August 21, 2020 until September 15, 2020** from the address below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of:

PARTICULARS	Approved Budget for the Contract	Standard Rates for Bidding Documents per Lot
Lot1 – Material Testing Equipment	Php 7,701,000.00	Php 10,000.00
Lot2 – Chemical Laboratory Equipment	Php 2,960,000.00	Php 5,000.00

It may also be downloaded for free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The NIA will hold a Pre-Bid Conference on **September 1, 2020, 2:00 PM at Classroom A, 3rd Floor DCIEC Building NIA Complex, EDSA Diliman, Quezon City**, which shall be opened to prospective bidders.
7. Bids must be duly received by the BAC Secretariat at the address below on or before **September 15, 2020, 1:30 PM**. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

Bid opening shall be on **September 15, 2020, 2:00 PM at Classroom A, 3rd Floor DCIEC Building NIA Complex, EDSA Diliman, Quezon City**. Bids will be opened in the presence of the bidders’ representatives who choose to attend at the address below. Late bids shall not be accepted.

8. The *NIA* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
9. For further information, please refer to:

The Head Secretariat

Bids and Awards Committee-B,
Procurement and Property Division
National Irrigation Administration
Ground Floor, Bldg. A,
NIA Complex, EDSA, Diliman, Quezon City
Tel. Nos., 8-921-3906, 8-929-6071 loc. 132

ATTY. AILYNE C. AGTUCA-SELDA
BAC-B Chairperson

Bid Data Sheet

ITB Clause				
1.1	<p>The Procuring Entity is <i>National Irrigation Administration (NIA)</i>.</p> <p>The name of the Contract is <i>Supply, Delivery, Installation and Testing of Laboratory Machinery and Equipment for Research/Soils and Water Laboratory Group, Irrigation Engineering Center</i>.</p> <p>The identification number of the Contract is <i>ITB BS-005-2020</i>.</p>			
1.2	<p>The lot(s) and reference is/are:</p> <p><i>Supply, Delivery, Installation and Testing of Laboratory Machinery and Equipment for Research/Soils and Water Laboratory Group, Irrigation Engineering Center</i></p> <table><tr><th>PARTICULARS</th></tr><tr><td>Lot1 – Material Testing Equipment</td></tr><tr><td>Lot2 – Chemical Laboratory Equipment</td></tr></table>	PARTICULARS	Lot1 – Material Testing Equipment	Lot2 – Chemical Laboratory Equipment
PARTICULARS				
Lot1 – Material Testing Equipment				
Lot2 – Chemical Laboratory Equipment				
2	<p>The Funding Source is:</p> <p>The Government of the Philippines (GOP) through <i>Corporate Operating Budget (COB) for 2020 of NIA</i>.</p>			
3.1	No further instructions.			
5.1	No further instructions.			
5.2	Foreign bidders, except those falling under ITB Clause 5.2(b), may not participate in this Project.			
5.4	<p>The Bidder must have completed, within the period specified in the Invitation to Bid and ITB Clause 12.1(a) The statement of the Bidder's Single Largest Completed Contract (SLCC) is equal to fifty (50%) of the ABC or atleast two (2) similar contracts and the aggregate contract amount should be equivalent to at least fifty percent (50%) of ABC having the largest similar contract must be equivalent to at least twenty five percent (25%) of the ABC. Similar to the contract must be within five (5) years prior to the deadline for the submission and receipt of bids.</p> <p>For this purpose, similar contracts shall refer to:</p> <p><i>For Lot 1, similar contracts shall refer to <u>Material Testing Equipment Supply and Delivery of Laboratory Equipment for Soils Classification; and</u></i></p> <p><i>For Lot 2, similar contracts shall refer to <u>Chemical Laboratory Equipment Supply and Delivery of Chemical Laboratory Equipment for Soils and Water Analysis</u></i></p>			

7	No further instructions.
8.1	Subcontracting is not allowed.
8.2	Not applicable.
9.1	The Procuring Entity will hold a pre-bid conference for this Project on September 1, 2020, 2:00PM at Classroom A, 3rd Floor DCIEC Building NIA Complex, EDSA Diliman, Quezon City
10.1	<p>The Procuring Entity's address is:</p> <p>The Head Secretariat</p> <p>Bids and Awards Committee-B,</p> <p>Procurement and Property Division,</p> <p>National Irrigation Administration Ground Floor, Bldg. A, NIA Complex, EDSA, Diliman, Quezon City</p> <p>Tel. Nos., 8-921-3906, 8-929-6071 loc. 132</p>
12.1(a)	<p><u>Additional Requirements:</u></p> <ol style="list-style-type: none"> 1. Sworn statement as to the existence of After-Sales-Service Facilities and availability of spare parts with attached location of service centers including Greater Manila Area (mandatory). 2. a) Exclusive Distributorship Certificate; or <ul style="list-style-type: none"> b) Certificate of Authority as Reseller of Products Offered (if the bidder is not the exclusive distributor) issued by the manufacturer; or c) Certificate of Authority as Reseller/Distributor of Products Offered issued by the manufacturer to the Distributor and Certificate of Authority as Reseller issued by the Distributor. 3. Product Brochure / Technical Data Sheet
	The bidder's SLCC similar to the contract to be bid should have been completed within five (5) years from the date of submission and receipt of bids.
13.1	No additional requirements.
13.1(b)	No further instructions.
13.1(c)	No additional requirements.
13.2	The ABC is Ten Million Four Hundred Forty Six Thousand Pesos (Php

	10,446,000.00). Any bid with a financial component exceeding this amount shall not be accepted.												
15.4(a)(iv)	No incidental services are required.												
15.4(b)	No incidental services are required.												
16.1(b)	The Bid prices for Goods supplied from outside of the Philippines shall be quoted in Philippine Pesos												
16.3	Not applicable.												
17.1	Bids will be valid until One Hundred Twenty (120) calendar days from date of bid opening.												
18.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <p>1. The amount of not less than:</p> <table border="1"> <tr> <td>Lot 1</td><td>Php 154,020.00</td></tr> <tr> <td>Lot 2</td><td>Php 54,900.00</td></tr> <tr> <td>All Lots</td><td>Php 208,920.00</td></tr> </table> <p><i>[2% of ABC]</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</p> <p>2. The amount of not less than:</p> <table border="1"> <tr> <td>Lot 1</td><td>Php 385,050.00</td></tr> <tr> <td>Lot 2</td><td>Php 137,250.00</td></tr> <tr> <td>All Lots</td><td>Php 522,300.00</td></tr> </table> <p><i>[5% of ABC]</i> if bid security is in Surety Bond.</p> <p>3. Any combination of the foregoing proportionate to the share of form with respect to total amount of security.</p>	Lot 1	Php 154,020.00	Lot 2	Php 54,900.00	All Lots	Php 208,920.00	Lot 1	Php 385,050.00	Lot 2	Php 137,250.00	All Lots	Php 522,300.00
Lot 1	Php 154,020.00												
Lot 2	Php 54,900.00												
All Lots	Php 208,920.00												
Lot 1	Php 385,050.00												
Lot 2	Php 137,250.00												
All Lots	Php 522,300.00												
18.2	The bid security shall be valid until One Hundred Twenty (120) calendar days.												
20.3	Each Bidder shall submit <i>One (1)</i> original and <i>Two (2)</i> copies of the first and second components of its bid.												
21	<p>The address for submission of bids is:</p> <p>The Head Secretariat</p>												

Special Conditions of Contract

GCC Clause	
1.1(g)	The Procuring Entity is <i>NIA</i> .
1.1(i)	The Supplier is <i>[to be inserted at the time of contract award]</i> .
1.1(j)	The Funding Source is the Government of the Philippines (GOP) through GOP) through <i>Corporate Operating Budget (COB) for 2020 of NIA</i> in the amount of Ten Million Four Hundred Forty Six Thousand Pesos (Php 10,446,000.00)
1.1(k)	The Project Site/s is "The Project sites are defined in Terms of Reference
2.1	No further instructions.
5.1	The Procuring Entity's address for Notices is: The Head Secretariat Bids and Awards Committee-B, Procurement and Property Division, National Irrigation Administration Ground Floor, Bldg. A, NIA Complex, EDSA, Diliman, Quezon City Tel. Nos., 8-921-3906, 8-929-6071 loc. 132 The Supplier's address for Notices is: <i>[Insert address including, name of contact, fax and telephone number]</i>
6.5	Delivery and Documents – For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows: <i>For Goods Supplied from Abroad, state "The delivery terms applicable to the Contract are DDP delivered [insert place of destination]. In accordance with INCOTERMS."</i> <i>For Goods Supplied from Within the Philippines, state "The delivery terms applicable to this Contract are delivered [insert place of destination]. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at</i>

Section VII. Technical Specifications

TECHNICAL SPECIFICATIONS

<p><u>LOT 1</u></p> <p>Material Testing Equipment</p>	<p>Statement of Compliance</p>
<p>A. Supply, delivery, installation of Automatic Tri-Axial Testing Equipment (1 Unit)</p> <p>Specification:</p> <p>1 pc Triaxial load frame 50KN Cap. 230-110/50-60Hz/1ph</p> <p>3 pcs Banded triaxial cell for up to 500mm diam sample sizes</p> <p>3 pcs 38mm dia. two pore pressure for 500mm triaxial cell</p> <p>3 Pcs Top cap 38mm dia. With 2 drainage tubes</p> <p>3 Pcs Disc Prespex 38mm dia.</p> <p>3 pcs Pair of porous disc 38.. dia.</p> <p>3 pcs Rubber membrane 38mm dia.</p> <p>3 pcs O ring 38mm dia. (pack of 10)</p> <p>1 pc Membrane Placing toll for 38 mm dia. samples</p> <p>1 pc O ring placing tool for 38mm diam. samples</p> <p>1 pc Two Split Mould for 38mm dia sample</p> <p>3 pcs Filter drains (pack of 50) for 38 mm dia sample</p> <p>3 pcs Filter discs for 38mm dia. (pack of 100)</p> <p>1 pc Hand sampler complete of cutter, dolly and receiver for 38mm di samples</p> <p>1 pc Two parts split former with vacuum attachment for 38mm dia sample</p> <p>3 pcs Hydromatic pressure/volume controller for Autotriax 2 system</p> <p>3 pcs Water distribution panel automatic triaxial testing</p> <p>1 pc Nylon tubing 6.. bore x 8mm outside dia, 10 metre length</p> <p>1 pc Autotriax 2 Data acquisition and control unit:Master Unit</p> <p>1 pc Autotriax-2 Data Acquisition and control unit</p> <p>1 pc Set Comprehending</p> <p>1 pc LAN Hub with 8 ports</p> <p>1 pc Effective stress (CU/CD/UU) software with manual and automatic performance of saturation, consolidation and shear stages to ASTM and BS</p> <p>1 Pc Excel Template for triaxial test data processing for autotriax 2 automatic system (Microsoft excel latest version Included)</p> <p>1 pc 10 Kn capacity strain gauge load cell with adapters for triaxial machine</p> <p>1 Pc Linear potentiometer transducer, 25mm travel, with 6 pin Lumberg connector complete with mounting block</p> <p>3 pcs Mounting bracket for displacement transducer to fit 15.5 mm triaxial cell ram for (28-WF4050)</p> <p>3 pcs Pressure transducer 0-2000 Kpa</p> <p>3 pcs De airing block suitable for branded triaxial cells</p>	

1 Pc Air drying unit. For use with Silica gel with indicator
1 pc Portable vacuum pump, free air displacement 75 l/min, ultimate vacuum 0.1 mbar 230V/50-60Hz/1Ph
1 pc Rubber tube dia. 6.5 x 12.6 mm, 2m long for vacuum pumping
1 pc Valve panel for use with de-airing tank
2 pcs Silica Gel with indicator, 1000 g
1 pc De airing water tank, 231 capacity. Easy internal cleaning system
1 pc Flaring tool
* Supply, delivery and installation with end-user's training.
* Warranty and services

B. Gradation Test Set (1 set)

includes:

Sieve Test (Brass) No. 200, 8" diameter 4" wet washing
Sieve Test (Brass) No. 2", 8" diameter
Sieve test (Brass) No. 200 (0.075 mm)
Sieve Test (Brass) No. 40 (0.0425mm)
Sieve Test (Brass) no. 10 (2.00 mm)
Sieve Test (Brass) no. 1 (25.00)
Sieve Test (Brass) no. 2 (50 mm)
Sieve Test (Brass) no. 3/8 (9.5)
Sieve Test (Brass) No. 1 1/2 (37.50)
Sieve Test (Brass) No. 3/4 (19.00mm)
Sieve Test (Brass) no. 1/2 (12.50mm)
Sieve Test (Brass) no. 4 (0.425)
Pan and Cover 8" x 2"
Brush Sieve (nylon), 2 pieces

C. Liquid Limit Device, motorized with Counter including accessories and grooving tools (1 unit)

D. Moisture Density Relation Test Set (1 set)

includes:

hammer compaction (10lbs 18 drops), 2 pcs
hammer compaction (10lbs 12 drops), 2 pcs
compaction mold 6", 2 pcs
compaction mold 4", 2 pcs

E. Non-nuclear Soil Density Gauge (1 unit)

Operational Specification

Measurement Mode

Functions:

Wet, Dry Density, % Compaction, % Moisture

Soil Specifications:

Designed to operate with standard soils used in Civil construction projects

Requires inputs from standard:

Standard Test Methods for Liquid Limit, Plastic Limit and Plasticity Index of Soils (ASTM D4318)

Particle Size Distribution (ASTM D422)

Proctor Test (ASTM D698 and D1557)

<p>Operating Temperature : -20°C to 40°C (-4°F to 104°F)</p> <p>Mechanical Specifications:</p> <p>Measurement Specifications</p> <p>Sensing Area : 11in. (27.9mm) diameter base allows optimum measurement on fine and coarse material types.</p> <p>Measurement Depth: Designed for use on a standard 12" (30cm) un-compacted layer of soil during or after compaction.</p> <p>Measurement Display: Dry Density, % Compaction, % Moisture, GPS Data, Material Information and Project Name</p> <p>Accuracy: Wet Density +/-2%, Water Content +/-2%</p> <p>Electrical Specifications:</p> <p>Microprocessor Controlled</p> <p>Battery: 14.0 Amp-hr NiMH, 7.2 Volt</p> <p>Recharge Time : 4 hours</p> <p>Battery Charger: Self Contained CE & UL Certified Universal AC Charger, DC Charger</p> <p>Computer Ports: 1 USB Port</p> <p>* Supply, delivery and installation with end-user's training.</p> <p>* Warranty and services</p> <p>F. Weighing Scale, Top-loading balance, digital, Capacity: 30kg (2 units)</p>	
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<u>LOT 2</u>	<i>Statement of Compliance</i>
Chemical Laboratory Equipment	
<p>A. Supply, delivery and installation of wall-mounted eyewash station, stainless steel, including fittings and other materials necessary for the installation - (2 Units)</p> <p>Specifications:</p> <p>Includes a mesh in-line strainer and ball valve with stainless steel ball and stem</p> <p>Supply: 1/2" IPS. Waste: 1- 1/2" IPS.</p> <p>Wall Mount</p> <p>Stainless steel receptor</p> <p>Aluminium wall bracket and tailpiece and trap</p> <p>Warranty and services</p> <p>B. Flammable Storage Cabinet (2 Units)</p> <p>Safe and approved storage of hazardous materials in workrooms</p> <p>Fire resistance 90 minutes</p> <p>Body made of sheet steel plastic laminated, structure finish</p> <p>Doors lockable with cylinder lock (suitable for master-key system)</p> <p>Exhaust air connection on top of the cabinet</p> <p>Height adjustable shelves, load capacity 75 kg (evenly distributed)</p>	

load)

Specifications:

Outer dimensions (W x D x H): 1193 x 615 x 1953mm

Inner dimensions (W x D x H): 1050 x 522 x 1647mm

Shelf dimensions (W x D x H): 1040 x 432 x 30mm

C. Laboratory Oven (2 Units)

Specifications:

Precise drying, heating

Temperature Set temperature range in °C, ambient + within 5°C above ambient - +300°C

Temperature 1 Pt100 sensor DIN class A in 4-wire-circuit

Control COCKPIT Single DISPLAY. Adaptive multifunction digital PID microprocessor controller with high- definition TFT- colour display

Timer Digital backwards counter with target time setting, adjustable

Function Set point WAIT the process time does not start until the set temperature is reached

Calibration three freely selectable temperature values

Adjustable temperature (Celsius or Fahrenheit), air flap position, programmer, time, time zones, summertime/wintertime

Ventilation Convection natural convection

Fresh air admixture adjustment of pre-heated fresh air admixture by air flap control in 10% steps

Vent connection with restrictor flap

Documentation programmer stored in case of power failure

Temperature control adjustable electronic over temperature monitor and mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature

Auto diagnostic system for fault analysis

Internals 2 stainless steel grid(s), electro polished

Works calibration certificate Calibration at +160°C

Door fully insulated stainless steel door with 2- point locking (compression door lock)

Stainless steel interior

Volume 108L

Dimension W x H x D in mm w(A) x h(B) x d(C): 560 x 480 x 400mm

Max. number of internals 5

Max. loading of chamber 175 kg

Max. loading per internal 20 kg

Textured stainless steel casing Dimension w(D) x h(E) x d(F): 745 x 864 x 584 mm

Housing rear zinc- plated steel

Electric data Voltage Electrical load 230 V, 50/60 Hz approx. 2800 W

Standard units are safety-approved and bear the test marks

Services: Installation, Maintenance and training for the End-Users

Warranty: Warranty of 1 year on unit, parts and services. / with Certificate of calibration

D. Hot Plate, Large Capacity (1 Unit)

Specifications

Plate dimensions, mm: 300 x 500
Heated area, mm: 250 x 450
Heater power, W: 2250
Max. plate temp. °C: 375
Overall dimensions, (w x d x h): 520 x 360 x 130
Electricity supply: 230V, 50-60Hz

E. Laboratory Water bath (1 Unit)

SPECIFICATIONS

Temperature Setting temperature range +10 to +95 °C and boiling stage

Working temperature range in °C min. 5 above ambient up to +95 °C with additional boiling mode

Safety Temperature control

Temperature control in case of over temperature due to failure, the heating is switched off at approx. 10°C above the set temperature (fixed value)

Autodiagnostic system microprocessor PID-temperature controller with integrated auto diagnostic system with fault indicator

Standard equipment Controller digital display (LED) of set and actual temperature (0,1°C resolution) and of (remaining) programme time

Stainless steel interior Dimensions W x H x D in mm w(A) x h(C) x d(B): 350 x 140 x 290 mm

Interior made of stainless steel

Volume 14 L

Liquid level min. (H) 97 mm

Liquid level max. (I) 120 mm

Textured stainless steel casing Dimensions w(D) x h(G) x d(E): 578 x 347 x 436 mm

Electrical data Voltage 230 V, 50/60 Hz

Electrical load approx. 1800 W (during heating)

Ambient temperature +5 °C to +40 °C

Humidity rh max. 80 %, non-condensing

Standard units are safety-approved and bear the test marks

SERVICES: Installation, Maintenance and Training for the End-Users.

WARRANTY: Warranty of 1 year on unit, part & services. / with Certificate of calibration

F. Supply, delivery and installation of ultrapure and pure water system with tank (Type 1 and type 2) (1 Unit)

Specifications:

UltraPure Water Quality (Type I)

Water resistivity: 18.2 MΩ.cm @ 25 degC

Water TOC: 1-3 ppb

Dispensing Rate: 2 L/min

Bacteria: <0.1 cfu/ml

Pure Water System (Type 2) (as feed to the Ultrapure System)

Produces Type 2 water from tap water

Production rate: at least 15 Liters/hour

Tank Capacity: 30 Liters

System Performance

Pure Water Quality (Type 2)

Product water resistivity: 10 MΩ.cm @ 25 deg C

Product water TOC: <30 ppb

Production Rate: 20 L/hr

Other Requirements:

Supplier can do 24/7 service repairs including weekends and holidays if needed.

Water system is stackable- can be put on top of the other like tank and water system to save space.

Company should have atleast 4 trained service engineers with certificates that can service the water system anytime

Service respond call is within 2 hours

Performed pre-installation check to ensure the connections from tap to the water system.

Lot offer comes with initial consumables.

System should come with a 3 series pretreatment set up prior to the water system installation

Certificate of Exclusive Distributorship from supplier (PDF scan copy is acceptable)

Type 1 water system must have Flexible dispenser with display option

Type 2 water system produces 20 L/hour

Type 2 reservoir 30 L

Consumables cost should be reflected and itemized on the financial bid form

Warranty

G. Semi-micro Analytical Balance with accessories, including supply, delivery and installation (1 Unit)

Weighing capacity: 220 grams/ 102 grams

Minimum display: 0.1 mg/ 0.01 mg

Repeatability (standard deviation): 0.015 mg (on 5 grams or lower load)

Linearity: ±0.2 mg/ 0.1 mg

Response time: 2 sec/ 8 sec

Body dimension: 212 mm (W) x 367 mm (D) x 345 mm (H)

Pan size: 91 mm diameter

Calibration modes: internal (automatic) and external (manual)

Power requirement: 100 V to 240 V

Output terminal: RS232, USB- Type A and USB- Type B

Built-in, motor driven calibration weight

Perfect self- calibration upon temperature change

Clock- calibration feature

Built- in buffer solutions preparations for HPLC/ UFLC

Built-in sample (concentration) preparation

Built-in anti- static device

Inspection support ready

Standard pan for handling pipettes

Option for specific gravity determination

OLED digital display

Multi- weight units/ modes/ applications/ piece- counting

Overload protection mechanism

Response to stability filter indication
GMP/ GLP/ ISO compliance printing report
Data saving output via RS232 and USB
Bi directional communication to PC
Services: Installation, Maintenance and Training for the End-Users.
WARRANTY: Warranty of 1 year on unit, part & services. / with
Certificate of calibration.

**I. Refrigerator (Chiller), upright, 14 cu. ft. inverter, LCD Display (1
UNIT)**
Warranty of 1 year on unit, part & services. / with Certificate of
calibration

I hereby certify to comply with all the above guidelines, conditions and technical specifications.

Name of Company/Bidder

Signature over Printed Name

Date