

Bid Bulletin No. 1

**“Supply, Delivery, Installation, and Commissioning of Various Testing Equipment and Machines for Bureau of Product Standards”
Bidding No. 21-045**

November 12, 2021

This Bid Bulletin No.1 is hereby issued to modify or amend the Bidding Documents.

I. Schedule of Proceedings

Activity	Schedule
Opening of Financial Documents	<p>November 22, 2021, 9:30 AM for Pre-Bid Conference through video conference with the following details:</p> <p>Zoom Meeting Details: https://zoom.us/j/97750704261?pwd=emNKVzNBZWRRnT21QcWRNSXJvd2dsUT09</p> <p>Meeting ID: 977 5070 4261 Passcode: 978599</p>

Bidding Document Fee:

The amount of the bidding document fee will be based on the total amount of the approved budget of contract the bidder opts to bid. Five Thousand Pesos (PhP5,000.00) for ABC amounting to more than PhP1,000,000.00 up to PhP5,000,000.00, Ten Thousand Pesos (PhP10,000.00) for ABC amounting to more than PhP5,000,000.00 up to PhP10,000,000.00 and Twenty-Five Thousand Pesos (PhP25,000.00) for ABC amounting to more than PhP10,000,000.00 up to PhP50,000,000.00.

II. Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <p>a. Supply, Delivery and Installation of Testing Equipment;</p> <p>a. completed within five (5) years or more prior to the deadline for the submission and receipt of bids.</p> <p>The prospective bidder should have completed at least two (2) similar contracts and the aggregate contract amounts should be equivalent to at least 50% of the ABC; and</p>

BIDS AND AWARDS COMMITTEE

	The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.
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III. Terms of Reference

LOT 1: Supply, Delivery, Installation, and Commissioning of Turnkey Testing Facility for Chemical Elemental Analysis of Cement

Technical Specifications:

A. 4. X-Ray Fluorescence Spectrometer (XRF)

: X-Ray Tube

4.3 Window: not higher than 75 microns

4.6 Employs technology to eliminate the major source of instrument drift ensuring extended lifetime, long-term stability and reduced instrument calibration frequency

4.8 To ensure compatibility of the X-Ray tube when its replacement is necessary, the component shall be manufactured by the same XRF manufacturer or by a company exclusively producing the component for the XRF manufacturer

7. Sample Changer: Can load **at least 10** samples per batch and upgradable to accommodate more samples if necessary

9. Detectors:

9.3 Inclusive of at least 5 units flow counter window at 0.6 to 1 μm

10. Cooling System: Self-cooling (no separate chiller required)

B. Fusion Machine

1. To ensure compatibility, the Fusion Machine shall be manufactured or designed by the manufacturer of the above-specified WDXRF manufacturer. Fusion machine from a different manufacturer shall only be considered if the local distributor is the same company supplying the WDXRF and possesses the technical capability to address issues of incompatibility and potential problems relating to the accuracy and repeatability of the elemental analysis system

16. With casting dish sensor or equivalent technology or mechanism. The fusion cycle will not start if the casting dish is not detected

LOT 4: Supply, Delivery, and Installation of Physical Testing Facilities for Cement

LOT 1 Comprehensive Strength Test Facility

2. Automatic Mortar Mixer

7. With sand feeder that ensures the discharge of the sand at a regular rate in the time specified by ASTM standard

6. Humidity Cabinet for Cement Curing

7. With internal lighting

LOT 2 Cement Expansion and Sample Preparation Facility

1. Cement Autoclave

2. Capable of accommodating 8 to 10 cement prism specimens of 1 x 1 x 10 inches (25 x 25 x 285 mm), about 8 liters capacity

4. Maximum temperature: Autoclave allows temperature setting of up to 218 °C with enough margin for the safe operation of the equipment

5. The control shall be capable of maintaining the gauge pressure at 2 ± 0.07 MPa [295 ± 10 psi] for at least 3 hrs.

3. Two-Gang Prism Molds

1. For specimens of 25 x 25 x 285mm

LOT 3 Loss of Ignition Test Facility

1. Laboratory Furnace

3.) 8 to 10 liter chamber volume

Comments/Agreement during the Pre-Bid Conference:

LOT 1: Supply, Delivery, Installation, and Commissioning of Turnkey Testing Facility for Chemical Elemental Analysis of Cement

A. 4. X-Ray Fluorescence Spectrometer (XRF)
: X-Ray Tube

4.4 Power rating: not less than 1kW, within the range of 20-60kV

4.5 kV-mA switching: Isowatt switching or its equivalent technology.

19. With at least 2 platinum crucibles (minimum of 40 grams of PT/5% Au) and at least 2 platinum molds (minimum of 53 grams of PT/5% Au)

C. Provision of Training for BPS-PTD Staff

1. Comprehensive training for BPS-PTD staff on the operation of the installed facility shall be provided not more than two (2) weeks after commissioning – the requirement is comprehensive training for the operation of installed facility – this cannot be done off-site

Post-Qualification Requirements:

2. The local supplier of XRF and Fusion Machine shall possess a minimum of 4 years of partnership with the equipment manufacturer to ensure continuous technical support from the principal

LOT 2: Supply, Delivery, and Commissioning of Table Top Universal Testing Machine

*Table-Top Universal Testing Machine

4. Compatible with existing BPS-PTD software “Trapezium X” for control, data acquisition, and reporting or separate software compatible to the UTM to be supplied and capable of the above indicated functions
23. Touch-load detection function/sensitivity function

*Pneumatic Flat Grips 1kN Capacity) with Foot valve Unit

42. Allowable Temperature: 10 – 50 °C which is the normal operating environment of UTM's – this component cannot be operated independently without the UTM

LOT 6: Supply, Delivery, and Commissioning of One (1) Lot Light Transmission Meter; LOT 7: Supply, Delivery, and Commissioning of One (1) Lot Milling and Drilling Machine; and LOT 8: Supply, Delivery, and Commissioning of One (1) Lot 200 kVa Generator Set

Post-Qualification Requirements:

- *A certificate as a reseller or any proof from the manufacturer that they are authorized to supply the said equipment shall be submitted

For the guidance and information of all concerned.

SGD.
MARY JEAN T. PACHECO
Assistant Secretary
Chairperson, DTI Bids and Awards Committee