



BIDS AND AWARDS COMMITTEE FOR GOODS, SUPPLIES, AND SERVICES

July 27, 2018

Bid Bulletin No. 1 Modifications in the Bid Data Sheet, Schedule of Requirements, and Technical Specifications

This Bid Bulletin is issued to modify or amend items in the Bidding Documents for the
“Procurement of Laboratory Equipment for the College of Engineering (Civil
Engineering)” with Reference No. G-2018-17, and shall form an integral part thereof, to wit:

I. Bid Data Sheet

ITB Clause	FROM	TO
12.1 (b) (v)	Additional Documents to be included in the Technical Component: 1. Manufacturer's Authorization Form or Certificate as Authorized Distributor/Reseller or Certificate of Registration as Manufacturer/Fabricator; 2. Brochure, catalogues, clear copy of print-outs of items being offered (if downloaded); 3. Warranty Certificate	Additional Documents to be included in the Technical Component: 1. Manufacturer's Authorization Form or Certificate as Authorized Distributor/Reseller or Certificate of Registration as Manufacturer/Fabricator; 2. Brochure, catalogues, clear copy of print-outs of items being offered (if downloaded); 3. Warranty Certificate <u>4. (Additional Entry) Very Satisfactory performance rating from the concerned end-user unit (for previous supplier of BulSU)</u>
18.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: 1. The amount of not less than	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: 1. The amount of not less than

<p>(P9,975.08) Lot-1, (P118,267.32) Lot-2, (P13,200.00) Lot-3 [Insert 2% of ABC], 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 (P24,937.70) Lot-1, (P295,668.30) Lot-2, (P33,000.00) Lot-3, [Insert 5% of ABC] if bid security is in Surety Bond</p>	<p>(P9,975.08) Lot-1, (P118,267.32) Lot-2, (P13,200.00) Lot-3 [Insert 2% of ABC], 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 (P24,937.70) Lot-1, (P295,668.30) Lot-2, (P33,000.00) Lot-3, [Insert 5% of ABC] if bid security is in Surety Bond</p> <p><u>Note: For Bid Securing Declaration(BSD) ,the bidder must provide separate BSD on each lot</u></p>
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II. Schedule of Requirements

Lot No.	FROM	TO
1	<p>LOT 1- SOIL MECHANICS LAB</p> <p>Delivery Period:</p> <p>Sixty (60) Calendar days upon receipt of Notice to Proceed</p>	<p>LOT 1- SOIL MECHANICS LAB</p> <p>Delivery Period:</p> <p>Sixty (60) Calendar days upon receipt of Notice to Proceed <u>(retain)</u></p>
2	<p>LOT 2-FLUIDS MECHANIC LAB</p> <p>Delivery Period:</p> <p>Sixty (60) Calendar days upon receipt of Notice to Proceed</p>	<p>LOT 2-FLUIDS MECHANIC LAB</p> <p>Delivery Period:</p> <p><u>Ninety (90)</u> Calendar days upon receipt of Notice to Proceed</p>
3	<p>LOT 3-MATERIALS & TESTING LAB</p> <p>Delivery Period:</p> <p>Sixty (60) Calendar days upon receipt of Notice to Proceed</p>	<p>LOT 3-MATERIALS & TESTING LAB</p> <p>Delivery Period:</p> <p><u>Ninety (90)</u> Calendar days upon receipt of Notice to Proceed</p>

III. Technical Specifications

Item No.	FROM	TO
Lot-2	FLUIDS MECHANIC LAB	FLUIDS MECHANIC LAB
1	<p>Hydrostatic Pressure Apparatus: Tank capacity: 5.5 l.</p> <p>A set of masses of different weights is supplied (4 of 100 gr, 1 of 50 gr, 5 of 10 gr, and 1 of 5 gr).</p>	<p>Hydrostatic Pressure Apparatus: Tank capacity: 5.5 L.</p> <p>A set of masses of different weights is supplied (4 of 100 gr, 1 of 50 gr, 5 of 10 gr, and 1 of 5 gr).</p>
2	<p>Metacentric Height Apparatus: Table top Maximum angle: $\pm 13^\circ$.</p> <p>Dimension of the float: Length: 353 mm. Width: 204 mm. Total height: 475 mm.</p>	<p>Metacentric Height Apparatus <u>with float</u>: Maximum angle: $\pm 13^\circ$.</p>
3	<p>Horizontal Osborne-Reynolds Demonstration: This module is mounted on an anodized aluminum structure with painted steel panel. Methacrylate test pipe with an airfoil-shaped inlet section: Inner diameter: 16 mm. External diameter: 20 mm. Length: 750 mm. Water supply tank with level fitting and connection for its feeding. It has a section that makes it possible to generate a constant pressure at the tank inlet. Capacity: 2.4 l. Dye or vegetable colouring tank with a valve and an injection needle, tank capacity: 0.4 l. Colouring matter injection is regulated with a needle valve. Control valve to adjust the water flow in the experiments. Easy and quick coupling system built-in.</p>	<p>Horizontal Osborne-Reynolds Demonstration.</p> <p>Methacrylate test pipe with an airfoil-shaped inlet section.</p> <p>Water supply tank with level fitting and connection for its feeding. It has a section that makes it possible to generate a constant pressure at the tank inlet. Capacity: 2.4 L. (maximum) Dye or vegetable colouring tank with a valve and an injection needle, tank capacity: 0.4 L. (maximum) Colouring matter injection is regulated with a needle valve. Control valve to adjust the water flow in the experiments. Easy and quick coupling system built-in.</p>
6	<p>Fluid Properties Apparatus: 3 Hydrometers of resolution 0.002°SG: Two hydrometer jars of 450 x 50 mm.</p> <p>Aneroid barometer, range: 973 – 1047 mbar. Thermometer with a range between -10</p>	<p>Fluid Properties Apparatus: 3 Hydrometers of resolution 0.002°SG: Two hydrometer jars</p> <p>Aneroid barometer, Thermometer with a range between -10 and 50°C.</p>

	<p>and 50°C.</p> <p>Pycnometer of 50 ml. Parallel plates capillary module. Capillary tubes module with tubes of different size: 5 mm, 4 mm, 3 mm, 2.2 mm, 1.7 mm and 1.2 mm.</p> <p>Two falling sphere viscometer tubes of 300 x 40 mm, with marks at 0, 25, 175, 200 and 220.</p> <p>Set of stainless steel balls of different sizes: 3.175 mm, 2.381 mm and 1.588 mm. Variable scale lever balance to be used with the Archimedes module, up to 310 gr. Archimedes module: displacement vessel, bucket and cylinder. Graduated cylinder made of glass (250 ml.) 2 Beakers made of glass (600 ml.) Digital chronometer.</p>	<p>Pycnometer Parallel plates capillary module. Capillary tubes module with tubes of different size:</p> <p>Two falling sphere viscometer tubes</p> <p>Set of stainless steel balls of <u>three (3) different</u> sizes.</p> <p>Variable scale lever balance to be used with the Archimedes module, up to 310 gr.</p> <p>Archimedes module: displacement vessel, bucket and cylinder. Graduated cylinder made of glass (250 ml.) 2 Beakers made of glass (600 ml.) Digital chronometer.</p>
7	<p>Impact of a Jet Apparatus: Jet diameter: 8 mm. Impact surfaces diameter: 40 mm.</p> <p>Impact surfaces: 180° hemispherical surface. 120° curve surface. 90° flat surface. A set of masses of 5, 10, 50 and 100 g. is supplied. Easy and quick coupling system built-in.</p>	<p>Impact of a Jet Apparatus:</p> <p>Impact surfaces: 180° hemispherical surface. 120° curve surface. 90° flat surface. A set of masses of 5, 10, 50 and 100 g. is supplied. Easy and quick coupling system built-in.</p>
8	<p>FLOW CHANNEL, (section: 80mm, 2.5 meter length)</p> <p>Channel of rectangular section with transparent walls in methacrylate, length: 2.5 m. Rigid and flexible pipes. Regulating valves. Storage tank. Tank with soothing of flow. Easy and quick coupling system built-in. Anodized aluminum structure. Wide range of available accessories:</p>	<p>FLOW CHANNEL,</p> <p>Channel of rectangular section with transparent walls in methacrylate, length: 2.5 m. Rigid and flexible pipes. Regulating valves. Storage tank. Tank with soothing of flow. Easy and quick coupling system built-in. Anodized aluminum structure. Wide range of available accessories:</p> <ul style="list-style-type: none"> • <u>Pitot tube</u> • <u>Vertical flat gate</u> • <u>Syphon spillway</u> • <u>Self-regulating syphon</u>

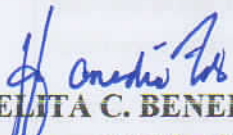
		<ul style="list-style-type: none"> • <u>Scale to measure the water level</u> • <u>Sharp crested discharge weirs</u> • <u>Broad-crested weirs</u>
9	<p>Flow Meter Demonstration: Manometer range: 0 to 500 mm. of water column. Number of manometric tubes: 8. Orifice plate diameter: 25 mm. Flowmeter: 2 to 30 l./min. Venturi dimensions: Throat diameter: 20 mm. Upstream pipe diameter: 32 mm. Downstream taper: 21°. Upstream taper: 14°. Orifice Plate dimensions: Upstream pipe diameter: 35 mm. Downstream orifice diameter: 19 mm.</p>	<p>Flow Meter Demonstration: Manometer range: 0 to 500 mm. of water column. Number of manometric tubes: 8. Flowmeter: 2 to 30 l./min.</p> <p>Downstream taper: 21°. Upstream taper: 14°.</p>
11	<p>Sets of Weirs: Dimensions of the weirs: 230 x 4 x 160 mm. Neckline angle in the V-shape weir: 90°. Dimension of rectangular notch: 30 x 82 mm.</p>	<p>Sets of Weirs</p> <p>Neckline angle in the V-shape weir: 90°.</p>
Lot-3	MATERIALS & TESTING LAB	MATERIALS & TESTING LAB
5	<p>Slump Cone: The set includes a heavy-gauge spun steel Slump Cone, cast aluminum Base Plate, and 24 x 5/8in (610 x 16mm) stainless steel Tamping Rod. Base clamps swivel to secure slump cone in use. The unit's carrying handle rotates over the sample as a measuring reference. Features: Clamps on Base swivel to secure Slump Cone. Components assemble compactly for easy transport and storage. Carrying handle rotates for immediate slump measurements. Included Items: HM-40 Slump Cone, Base and Rod Set. Accessories: TSA-188 38oz Aluminum Round Bottom Sample Scoop for collecting smaller fresh concrete samples TSA-189 58oz Aluminum Round Bottom Sample Scoop collects larger samples of fresh concrete TSA-232 or TSA-233 Scrub Brushes for heavy field cleaning and comes in 8 or 20in (203 or 508mm) sizes IIMA-306 or IIMA-307 Trowel in straight-edge model for consolidation and strike-off, or curved side model for mixing and handling</p>	<p>Slump Cone: The set includes a heavy-gauge spun steel Slump Cone, cast aluminum Base Plate, and 24 x 5/8in (610 x 16mm) stainless steel Tamping Rod. Base clamps swivel to secure slump cone in use. The unit's carrying handle rotates over the sample as a measuring reference. Features: Clamps on Base swivel to secure Slump Cone. Components assemble compactly for easy transport and storage. Carrying handle rotates for immediate slump measurements. Included Items: Slump Cone, Base and Rod Set. Accessories:</p> <ul style="list-style-type: none"> • Sample Scoop for collecting smaller fresh concrete samples • Sample Scoop collects larger samples of fresh concrete • Scrub Brushes for heavy field cleaning and comes in 8 or 20in (203 or 508mm) sizes • Trowel in straight-edge model for consolidation and strike-off, or curved side model for mixing and handling

<p>TSA-275 or TSA-279 Measuring Tapes measure in feet and inches or inches and millimeters</p> <p>HM-53 Slump Cone Filling Funnel allows easy filling of slump cones for testing</p> <p>Meets Standard(s): BS 1881 , ASTM C143/143M , AASHTO T 119M/ T 119</p> <p>ACCESSORIES</p>	<ul style="list-style-type: none"> • Measuring Tapes measure in feet and inches or inches and millimeters • Slump Cone Filling Funnel allows easy filling of slump cones for testing <p>Meets Standard(s): BS 1881 , ASTM C143/143M , AASHTO T 119M/ T 119</p> <p>ACCESSORIES</p>
<p>Compliance:</p> <ul style="list-style-type: none"> - 5 years warranty on all parts and services - Package must include laboratory experiment manual from the manufacturer. - Actual equipment inspection during post qualification. - Free trainers training (minimum of 20 participants) at Bulacan State University or at suppliers training center. - Free copy of training manual (electronic and hardcopy). - Single brand for all the training kits. - Supplier must have its own training facility. - Supplier must have capability to do servicing after manufacturer's warranty (must have its own service center). - Provide brochure/catalog attached to bid documents. - Supplier must have certification from manufacturer as Authorized Distributor. - Must be at least 10 years in the business of providing technical training equipment. 	<p>Compliance:</p> <ul style="list-style-type: none"> - 5 years warranty on all parts and services - Package must include laboratory experiment manual from the manufacturer. - Actual equipment inspection during post qualification. - Free trainers training (minimum of 20 participants) at Bulacan State University or at suppliers training center. - Free copy of training manual (electronic and hardcopy). - Single brand for all the training kits <u>(except for item 1&2 of Lot-1 and all items for Lot 3.)</u> - Supplier must have its own training facility. - Supplier must have capability to do servicing after manufacturer's warranty (must have its own service center). - Provide brochure/catalog attached to bid documents. - Supplier must have certification from manufacturer as Authorized Distributor. - Must be at least 10 years in the business of providing technical training equipment.

Notes:

- 1. Specifications/items/descriptions in the bidding documents of Procurement of Laboratory Equipment for the College of Engineering (Civil Engineering) that are not mentioned above will remain as it is**
- 2. Modified/additional entries are underlined, bold and italicized.**

This Supplemental/ Bid Bulletin no. 1 is issued this 27th day of July, 2018 for the guidance and information of all concerned.


ISABELITA C. BENEDICTOS
 Chairperson, BAC for Goods & Services