



Republic of the Philippines
BULACAN STATE UNIVERSITY
City of Malolos

**BIDS AND AWARDS COMMITTEE FOR
GOODS, SUPPLIES, AND SERVICES**

February 7, 2019

Bid Bulletin No. 1

Modification in the Invitation to Bid, Schedule of Requirements, Technical Specifications, and Bidding Forms (Section VIII)

This Bid Bulletin no. 1 is issued to modify or amend items in the Bidding Documents for project **Supply and Delivery of Differential Scanning Calorimeter for the College of Science** with reference no. G-2019-06. This shall form an integral part of the said Bidding Documents.

I. Invitation to Bid

No.	FROM	TO
2	The <i>Bulacan State University (BulSU)</i> now invites bids for Supply and Delivery of Differential Scanning Calorimeter for the College of Science (G-2019-06) . Delivery of the Goods is required within Forty-five (45) calendar days upon receipt of Notice to Proceed and Purchase Order. Bidders should have completed, within the last three (3) years from the date of submission and receipt of bids (February 18, 2019), a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.	The <i>Bulacan State University (BulSU)</i> now invites bids for Supply and Delivery of Differential Scanning Calorimeter for the College of Science (G-2019-06) . Delivery of the Goods is required within Sixty (60) calendar days upon receipt of Notice to Proceed and Purchase Order. Bidders should have completed, within the last three (3) years from the date of submission and receipt of bids (February 18, 2019), a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

II. Schedule of Requirements

Item No.	FROM	TO
1	Differential Scanning Calorimeter with centrifuge and pipettor package: Differential Scanning Calorimeter: Temperature range: RT up to 600°C -180 up to 600°C (LN2 Quench cooling) Heating and cooling rates:0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic)	Differential Scanning Calorimeter with centrifuge and pipettor package: Differential Scanning Calorimeter: Temperature range: RT up to 600°C - 150 up to 600°C (LN2 Quench cooling) Heating and cooling rates:0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital resolution: 16.8 million points Resolution: 0.03 µW

<p>Measuring range: +/-2,5 up to +/-250 mW Calibration materials: included Calibration: recommended 6-month interval The all new Chip DSC-sensor integrates all essential parts of DSC, furnace, sensor and electronics in a miniaturized housing. The chip-arrangement comprises the heater and temperature sensor in a chemically inert ceramic arrangement with metallic heater and temperature sensor.</p> <p><i>Includes in DSC:</i> Computer and Windows Software (license), Sample Press and Tool, Al crucible 0,024ml with Cap (100 pcs.), Liquid Nitrogen Quenching, Manual gas control for one gas, and User exchangeable DSC-sensor</p> <p>Small Benchtop Centrifuge: Maximum Capacity: 4 fixed / 4 swing bucket in one rotor, 8 x 15 mL (fixed angle) and 8 x 10 mL (swinging bucket) Maximum Speed: 300-4,900 rpm, adjustable in increments of 100 rpm Maximum RCF: 3,114 x g (fixed angle) 3,490 x g (swinging bucket) Time Setting: 1-99 minutes, in increments of 1 minute; HOLD Temperature Range: 2°C to 40°C Control System: Microprocessor User Interface: Large, brightly-lit LED display Program Memory: 4 Acceleration Profile: 1 (standard) Deceleration Profiles: 3 (standard, soft, brake-off) Acceleration/Deceleration Rates*: 24/37 seconds (fixed angle) 24/31 seconds (swinging bucket) Noise Level: <56 dBA (swinging bucket) Power Consumption: 100-130 W, voltage dependent Dimensions: (H x W x D) 240 x 325 x 450 mm (94.3 x 127.7 x 176.8 in) Weight: 15.5 kg (34.1 lb) Standards: IEC 61010-1, IEC 61010-2-020, IEC61010-2-101, EN 61326-1, EN ISO 13485 Unique Dual Spin rotor features hybrid design with interchangeable fixed angle and swinging buckets. Large, brightly-lit display is easy to read and fast one-click lid closure simplifies operation. Three selectable deceleration profiles including brake-off option are designed to optimize separation.</p>	<p>Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250 mW Calibration materials: included Calibration: recommended 6-month interval <u>The digital DSC-sensor</u></p> <ul style="list-style-type: none"> - <u>integrates all essential parts of DSC, furnace, sensor and electronics in a miniaturized housing.</u> - <u>comprises the heater and temperature sensor in a chemically inert ceramic arrangement with metallic heater and temperature sensor.</u> <p><i>Includes in DSC:</i> Computer and Windows Software (license), Sample Press and Tool, <u>Al crucible with Cap (100 pcs.)</u>, Liquid Nitrogen Quenching, Manual gas control for one gas, and User exchangeable DSC-sensor</p> <p>Small Benchtop Centrifuge: Maximum Capacity: 4 fixed / 4 swing bucket in one rotor, 8 x 15 mL (fixed angle) and 8 x 10 mL (swinging bucket) Maximum Speed: 300-4,900 rpm, adjustable in increments of 100 rpm Maximum RCF: 3,114 x g (fixed angle) 3,490 x g (swinging bucket) Time Setting: 1-99 minutes, in increments of 1 minute; HOLD Temperature Range: 2°C to 40°C Control System: Microprocessor User Interface: Large, brightly-lit LED display Program Memory: 4 Acceleration Profile: 1 (standard) Deceleration Profiles: 3 (standard, soft, brake-off) Acceleration/Deceleration Rates*: 24/37 seconds (fixed angle) 24/31 seconds (swinging bucket) Noise Level: <56 dBA (swinging bucket) Power Consumption: 100-130 W, voltage dependent Dimensions: (H x W x D) 240 x 325 x 450 mm (94.3 x 127.7 x 176.8 in) Weight: 15.5 kg (34.1 lb) Standards <u>(at least three (3))</u>: IEC 61010-1, IEC 61010-2-020, IEC61010-2-101, EN 61326-1, EN ISO 13485 Unique Dual Spin rotor features hybrid design with interchangeable fixed angle and swinging buckets. Large, brightly-lit display is easy to read and fast one-click lid closure</p>
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	<p>Mechanical Pipette, 1-ch, 100 - 1000 µl</p> <p>Volume Range (µl): 100–1,000 Increment (µl): 1.00 Test Volume(µl): 1,000/ 500/ 100 Systematic Error Limit ± (%): 0.7/ 0.8/ 2.5 Systematic Error Limit ± (µl): 7.0/ 4.0/ 2.5 Random Error Limit (%): 0.2/ 0.2/ 0.6 Random Error Limit (µl): 2.0/ 1.0/ 0.6</p> <ul style="list-style-type: none"> - Superior Ergonomics - designed handle and finger hook - Optiload System - Large Clear Display - Self Calibration Adjustment - Optilock - Clear and Easy Volume adjustment / setting - Safe Cone Filter to avoid cross contamination - Volume color coding in the cap - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil - Three parts to clean <p>Note: Training/seminar for the use of Lab Equipment to end-user/s Warranty: One (1) year on parts and lifetime on service under normal use. Free calibration before and during the delivery, and annual post-calibration for three (3) years</p>	<p>simplifies operation. Three selectable deceleration profiles including brake-off option are designed to optimize separation.</p> <p>Mechanical Pipette, 1-ch, 100 - 1000 µl</p> <p>Volume Range (µl): 100–1,000 Increment (µl): 1.00 Test Volume(µl): 1,000/ 500/ 100 Systematic Error Limit ± (%): 0.7/ 0.8/ 2.5 Systematic Error Limit ± (µl): 7.0/ 4.0/ 2.5 Random Error Limit (%): 0.2/ 0.2/ 0.6 Random Error Limit (µl): 2.0/ 1.0/ 0.6</p> <ul style="list-style-type: none"> - Superior Ergonomics - designed handle and finger hook - Fully Autoclavable - Spring Loading System - Large Clear Display - Self Calibration Adjustment - Dual Locking System - Clear and Easy Volume adjustment / setting - Safe Cone Filter to avoid cross contamination - Volume color coding in the cap - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil - Easy to clean <p>Note: Training/seminar for the use of Lab Equipment to end-user/s Warranty: One (1) year on parts Servicing: lifetime on service. Free calibration before and during the delivery, and annual post-calibration for three (3) years</p>
Delivered, Weeks/ Months	Forty-five (45) calendar days upon receipt of Notice to Proceed	Sixty (60) calendar days upon receipt of Notice to Proceed

III. Technical Specifications

Item No.	FROM	TO
1	<p>Differential Scanning Calorimeter with centrifuge and pipettor package:</p> <p>Differential Scanning Calorimeter: Temperature range: RT up to 600°C -180 up to 600°C (LN2 Quench cooling) Heating and cooling rates:0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic)</p>	<p>Differential Scanning Calorimeter with centrifuge and pipettor package:</p> <p>Differential Scanning Calorimeter: Temperature range: RT up to 600°C -150 up to 600°C (LN2 Quench cooling) Heating and cooling rates:0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic)</p>

<p>Measuring range: +/-2,5 up to +/-250 mW Calibration materials: included Calibration: recommended 6-month interval The all new Chip DSC-sensor integrates all essential parts of DSC, furnace, sensor and electronics in a miniaturized housing. The chip-arrangement comprises the heater and temperature sensor in a chemically inert ceramic arrangement with metallic heater and temperature sensor.</p> <p><i>Includes in DSC:</i> Computer and Windows Software (license), Sample Press and Tool, Al crucible 0,024ml with Cap (100 pcs.), Liquid Nitrogen Quenching, Manual gas control for one gas, and User exchangeable DSC-sensor</p> <p>Small Benchtop Centrifuge: Maximum Capacity: 4 fixed / 4 swing bucket in one rotor, 8 x 15 mL (fixed angle) and 8 x 10 mL (swinging bucket) Maximum Speed: 300-4,900 rpm, adjustable in increments of 100 rpm Maximum RCF: 3,114 x g (fixed angle) 3,490 x g (swinging bucket) Time Setting: 1-99 minutes, in increments of 1 minute; HOLD Temperature Range: 2°C to 40°C Control System: Microprocessor User Interface: Large, brightly-lit LED display Program Memory: 4 Acceleration Profile: 1 (standard) Deceleration Profiles: 3 (standard, soft, brake-off) Acceleration/Deceleration Rates*: 24/37 seconds (fixed angle) 24/31 seconds (swinging bucket) Noise Level: <56 dBA (swinging bucket) Power Consumption: 100-130 W, voltage dependent Dimensions: (H x W x D) 240 x 325 x 450 mm (94.3 x 127.7 x 176.8 in) Weight: 15.5 kg (34.1 lb) Standards: IEC 61010-1, IEC 61010-2-020, IEC61010-2-101, EN 61326-1, EN ISO 13485 Unique Dual Spin rotor features hybrid design with interchangeable fixed angle and swinging buckets. Large, brightly-lit display is easy to read and fast one-click lid closure simplifies operation. Three selectable deceleration profiles including brake-off option are designed to optimize separation.</p>	<p>Measuring range: +/-2,5 up to +/-250 mW Calibration materials: included Calibration: recommended 6-month interval <u>The digital DSC-sensor</u></p> <ul style="list-style-type: none"> - <u>integrates all essential parts of DSC, furnace, sensor and electronics in a miniaturized housing.</u> - <u>comprises the heater and temperature sensor in a chemically inert ceramic arrangement with metallic heater and temperature sensor.</u> <p><i>Includes in DSC:</i> Computer and Windows Software (license), Sample Press and Tool, <u>Al crucible with Cap (100 pcs.)</u>, Liquid Nitrogen Quenching, Manual gas control for one gas, and User exchangeable DSC-sensor</p> <p>Small Benchtop Centrifuge: Maximum Capacity: 4 fixed / 4 swing bucket in one rotor, 8 x 15 mL (fixed angle) and 8 x 10 mL (swinging bucket) Maximum Speed: 300-4,900 rpm, adjustable in increments of 100 rpm Maximum RCF: 3,114 x g (fixed angle) 3,490 x g (swinging bucket) Time Setting: 1-99 minutes, in increments of 1 minute; HOLD Temperature Range: 2°C to 40°C Control System: Microprocessor User Interface: Large, brightly-lit LED display Program Memory: 4 Acceleration Profile: 1 (standard) Deceleration Profiles: 3 (standard, soft, brake-off) Acceleration/Deceleration Rates*: 24/37 seconds (fixed angle) 24/31 seconds (swinging bucket) Noise Level: <56 dBA (swinging bucket) Power Consumption: 100-130 W, voltage dependent Dimensions: (H x W x D) 240 x 325 x 450 mm (94.3 x 127.7 x 176.8 in) Weight: 15.5 kg (34.1 lb) Standards <u>(at least three (3))</u>: IEC 61010-1, IEC 61010-2-020, IEC61010-2-101, EN 61326-1, EN ISO 13485 Unique Dual Spin rotor features hybrid design with interchangeable fixed angle and swinging buckets. Large, brightly-lit display is easy to read and fast one-click lid closure simplifies operation. Three selectable</p>
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IV. Bidding Forms (Section VIII)

	FROM	TO
SF-Good-13a	List of All Ongoing Government & Private Contracts including Contracts Awarded But Not Yet Started	Please see attached "New Form" for the List of All Ongoing Government & Private Contracts including Contracts Awarded But Not Yet Started
SF-Good-13b	Statement of Single Largest Completed Contract within the last two (2) years which is similar in nature	Please see attached "New Form" for the Statement of Single Largest Completed Contract within the last two (2) years which is similar in nature

This Supplemental/ Bid Bulletin no. 1 is issued this 7th day of February, 2019 for guidance and information of all concerned.


Dr. ROMEO D.C. INASORIA
Chairperson, BAC for Goods & Services

Bulacan State University

Project Reference Number: G-2019-06

Name of Project: Supply and Delivery of Differential

Scanning Calorimeter for the College of Science

Location of the Project: Bulacan State University, City of

Malolos Bulacan

Standard Form Number: SF-GOOD-13a

Revised on: July 28, 2004

List of All Ongoing Government & Private Contracts including contracts awarded but not yet started

Business Name: _____

Business Address: _____

Name of Contract/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Date Awarded b. Date Started c. Date of Completion	% of Accomplishment		Value of Outstanding Works / Undelivered Portion
			Description	%		Planned	Actual	
Government								
Private								
Total Cost								

Notes: This statement shall be supported with:

1. Notice of Award and/or Contract
2. Notice to Proceed issued by the owner
3. Certificate of Accomplishments signed by the owner or authorized representative

Submitted by : _____

(Printed Name & Signature)

Designation : _____

Date : _____

Bulacan State University

Project Reference Number: G-2019-06

Name of Project: Supply and Delivery of Differential Scanning
Calorimeter for the College of Science

Location of the Project: Bulacan State University, City of
Malolos Bulacan

Standard Form Number: SF-GOOD-13a

Revised on: July 28, 2004

Statement of Single Largest Completed Contract within the last three (3) years which is similar in nature

(Project equivalent to at least fifty percent (50%) of the ABC)

Business Name: _____

Business Address: _____

Name of Contract/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Amount at Award b. Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed
			Description	%		
Government						
Private						

Notes: This statement shall be supported with:

1. Contract
2. Certificate of Completion
3. Certificate of Acceptance

Submitted by : _____

(Printed Name & Signature)

Designation : _____

Date : _____