

PURCHASE ORDER

QR-ADMPPS-04

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

DOST Compound, Gen. Santos Ave., Bicutan, Taguig City
DOST Trunkline: 837-2071 local 2220 / 2221

W. GRT

Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIA-E-020-2016
Address: <i>Unit 433/434 Cityland Pasing Tamo Tower, 2210 Chino Roces Avenue, Makati City</i>	Date:	January 27, 2016
	Mode of Procurement:	Public Bidding
(3) PO-08 (2)	PR #	13-2015-0376
	ASC #	642-2015

Gentlemen:
Please furnish this office the following articles to the terms and conditions contained herein:

Place of Delivery:	Metrology Bldg.	Delivery Term:	120 calendar days
Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
1	unit	<p>SHIMADZU UNIVERSAL TESTING MACHINE with SAFETY DOOR INTERLOCK <i>Autograph: Model AGS-50kNXD (with +500mm Column Extension) - Table Top</i> Specifications: <i>Load Frame Capacity : 50 kN (5 tons)</i> <i>Loading Method : Direct, high precision, constant-rate strain control using non-backlash precision ball-screw drive</i> <i>Test Force Measurement Accuracy : Within ±1% of displayed test force for 1/500 ~ 1/1 of the load cell rated capacity. Conforms to JIS B7721 Class 1, EN 10002-2 Grade 1, ISO 7500-1 Class1, BS1610 Class 1, and ASTM E4</i> <i>Test Force Calibration: Automatic Calibration - Tensile and Compression Forces</i> <i>Crosshead Speed Range: Free step-less setting 0.001 mm/min ~ 800 mm/min</i> <i>Maximum return speed: 1,100 mm/min</i> <i>Crosshead Speed Precision: ±0.1%</i> <i>Crosshead Speed and Permitted Test Force: Maximum load cell capacity across entire speed range</i> <i>Crosshead-Table Clearance: Max. 1,710mm</i> <i>Effective Test Width: 425 mm</i> <i>Crosshead Position Detection</i> <i>Measurement and Display Methods: Optical encoder measurement, digital display</i> <i>Precision: Within ±0.1% of indicated value or ±0.01mm whichever is larger</i> <i>Sampling Speed: 1 ms (1,000Hz.) max. (1 data/millisecond)</i> <i>Test Method Files: 40 files (20 files PC Link, 20 files stand-alone controller</i></p>	1	5,390,000.00	5,390,000.00

page 1 of 6 pages
(Total Amount in Words)

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed.

Very Truly yours,

Conforme:

 (Signature over printed name)

 (Date)

Requisitioning Office/Dept.	Funds Available:	Amount
		ALOBS No.

PURCHASE ORDER

QR-ADMPPS-04

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

DOST Compound, Gen. Santos Ave., Bicutan, Taguig City
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K. CRTF

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Address:	Unit 433/434 Cityland Pasong Tamo Tower, 2210 Chino Roces Avenue, Makati City	Date:	January 27, 2016	
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		PR #	13-2015-0376	ASC #

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Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		TOTAL CARRIED FORWARD			5,390,000.00
		<p><i>Standard Functions: *Capable of performing at Stand-Alone (no PC) and PC Controlled (with Software)</i></p> <ul style="list-style-type: none"> <i>*With movable operational panel with machine readput (load and Stroke)</i> <i>*Automatic reading of load cell characteristics values</i> <i>*Test force stroke display function, stress display function, stroke display function, position display function</i> <i>*External interface from machine to computer</i> <i>*Automatic Test Force and Stress Control (with auto tuning)</i> <i>*Automatic Strain Control (with auto tuning)</i> <i>*Test force auto zero / auto calibration</i> <i>*Break detection / auto return</i> <i>*Load Cell overload detection</i> <i>*Stress value display / extensometer value display</i> <i>*Touch-load detection function</i> <i>*with Limit switches</i> <i>*Emergency stop button (to ensure safety at any point of the machine and operator during operation)</i> <p><i>Power Requirements: Single phase, 200~230 V, 60Hz, 4.0 kVA</i></p> <p><i>Voltage Fluctuation: ±10% of set value (max)</i></p> <p><i>D-Class (100ohm max.) Grounding Resistance</i></p> <p><u>OPERATIONAL ACCESSORIES - 1kN CAPACITY</u></p> <p><i>1 set Load Cell: 1kN Capacity (Class 1)</i></p> <p><i>Accuracy: Within ±1% max. of indicated value</i></p> <p><i>Accuracy Range: 1/500~ 1/1 of load cell rated capacity (2 N~1,000 N) or (0.2 kgf ~ 100 kgf)</i></p> <p><i>Conforms to JIS B7721 Class1, EN 10002-2 Grade 1, ISO 7500-1 Class1, BS1610 Class1, and ASTM E4</i></p>			

page 2 of 6 pages
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DOST Compound, Gen. Santos Ave., Bicutan, Taguig City
DOST Trunkline: 837-2071 local 2220 / 2221

QR-ADMPPS-04

16. 0127

Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIA-E-020-2016	
Address: <i>Unit 433/434 Cityland Pasong Tamo Tower, 2210 Chino Roces Avenue, Makati City</i>	Date:	January 27, 2016	
	Mode of Procurement:	Public Bidding	
(3) PO-01 (2)	PR #	13-2015-0376	ASC # 642-2015

Gentlemen:
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Date of Delivery:		Payment Term:	

Stock No.	Unit	Description	Quantity	Unit Cost	Amount
		TOTAL CARRIED FORWARD			5,390,000.00
		1 set Pneumatic Flat Grips (1kN Capacity) with Footvalve Unit <i>*Includes 1 set of File surface grip faces for thickness 0~6mm specimens (Hard Plastics)</i> <i>*Includes 1 set of Flat surface grip faces for thickness 0~6mm specimens (for Rubber)</i> <i>*Includes 1 set of Rubber surface grip faces for thickness 0~6mm specimens (for Films)</i> <i>*Allowable Temperature: 10~180°C</i> <u>OPERATIONAL ACCESSORIES - 10kN CAPACITY</u> 1 set Load Cell: 10kN Capacity (Class 1) <i>Accuracy: Within ±1% max. of indicated value</i> <i>Accuracy Range: 1/500 ~ 1/1 of load cell rated capacity (20 N~10,000 N) or (2 kgf ~ 1000 kgf.)</i> <i>Conforms to JIS B7721 Class 1, EN 10002-2 Grade 1, ISO 7500 Class1, BS1610 Class1, and ASTM E4</i> 1 set Pneumatic Flat Grips (10kN Capacity) with Footvalve Unit <i>*Includes 1 set of File surface grip faces for thickness 0~10 mm specimens</i> <i>*Allowable Temperature: 10~180°C</i> <u>OPERATIONAL ACCESSORIES - 50kN CAPACITY</u> 1 set Load Cell: 50kN Capacity (Class 1) <i>Accuracy: Within ±1% max. of indicated value</i> <i>Accuracy Range: 1/500 ~ 1/1 of load cell rated capacity (100 N~50,000 N) or (10 kgf ~ 5,000 kgf.)</i> <i>Conforms to JIS B7721 Class 1, EN 10002-2 Grade 1, ISO 7500-1 Class1, BS1610 Class1, and ASTM E4</i> 1 set Non-Shift Wedge Type Grips (50kN Capacity) <i>*Equipped with File-teeth grip faces for flat specimen with thickness from 0~14mm</i> <i>*Grip Face Width: 40mm</i> <i>*Allowable Temperature: -70~300°C</i>			

page 3 of 6 pages
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Requisitioning Office/Dept.	Funds Available:	Amount	_____
		ALOBS No.	_____

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INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

DOST Compound, Gen. Santos Ave., Bicutan, Taguig City
DOST Trunkline: 837-2071 local 2220 / 2221

K. CRTT

Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIA-E-020-2016	
Address: <i>Unit 433/434 Cityland Pasong Tamo Tower, 2210 Chino Roces Avenue, Makati City</i>	Date:	January 27, 2016	
	Mode of Procurement:	Public Bidding	
	PR #	13-2015-0376	ASC # 642-2015

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		<p><u>NON-CONTACT VIDEO EXTENSOMETER for DIFFERENT MATERIALS</u> 1 set Non-Contact Digital Video Extensometer (Camera Extensometer) *Model: TRViewX800D SX, Room Temp. *Gauge Length: Any value within camera's field of view *Field of View: Elongation: 800 mm Camera 1: 120 mm Camera 2: 800mm Width: 300 mm Camera 1: 40mm Camera 2: 300mm *Effective Resolution: 1.2µm Camera 1: 0.30µm Camera 2: 1.8µm *Elongation Accuracy @ Room Temperature: Absolute Accuracy: ±1.5µm (Camera 1) Relative Accuracy: Camera 1: Indicated value ±0.5% Camera 2: Indicated value ±1.0% *Width Accuracy @ Room Temperature: Absolute Accuracy: Camera1: ±2µm Camera2: ±30µm Relative Accuracy: Camera1: Indicated value ±0.5% Camera2: Indicated value ±1.0% *Distance between Specimen and Camera: Approx. 515mm to 530mm, Approx. 15mm adjustment possible via forward/backward position adjustment mechanism *Maximum Tensile Rate: 1,000 mm/min.</p>			

page 4 of 6 pages

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Ko-ack-ff

Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIA-E-020-2016		
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		*Sampling Frequency: Three values depending on image size: 33Hz, 50hz, and 100hz. *Available Recording Time: Approx. two (2) hours max. *Control Box Specification: Lighting Control: 4 channels, analog voltage output: 2 channels Digital Pulse Output: 2 channels, communication with PC: USB *Usage Environment: Temperature: 5°C to 35°C; Humidity: 20% to 80% no condensation *Complete with Sticker-Type Gauge Markers COMPRESSION AND BENDING JIGS 1 set Fixed-Type Compression Plates *Diameter: 100mm *Can be used to 50kN and 10kN load cells 1 set Three-Point Bending Jig for Plastic Specimen *Punch Radius x Width (mm): 1/8" x 72 *Support Radius x Width (mm): 1/8" x 110 *Distance between Supports (mm): 2" ~ 20" *Complies with ASTM D790 *Can be used to 50kN and 10kN load cells LOAD CELL VERIFICATION SET 1 set Load Cell Verification Device for 1kN, 10kN and 50kN Capacity Load Cell *Dead Weights (10% of 1kN) for 1kN Load Cell *Load Verification set for 50kN load cell and 10kN load cell			

page 5 of 6 pages

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		ALOBS No.	_____

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INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE
 DOST Compound, Gen. Santos Ave., Bicutan, Taguig City
 DOST Trunkline: 837-2071 local 2220 / 2221

16-042TF

Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIA-E-020-2016
Address: 433/434 Cityland Pasing Tamo Tower, 2270 Chino Roces Avenue, Makati City	Date:	January 27, 2016
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	ASC #	642-2015

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		MACHINE SOFTWARE CONTROL AND DATA PROCESSING			
		1 set TRAPEZIUM X Single			
		*Windows 7 based control & data processing software for Machine Testing/Operation			
		*Real-Time Data Display Panel			
		*Multiple Graph Function: enables displaying up to 4 graphs			
		*With results-statistics function			
		*Reports can be output in PDF, Microsoft Word, Excel, and HTML Format			
		*Creates random calculation formula using a data processing item or specimen size			
		INCLUSIONS			
		1 set DELL Desktop Computer with LCD Monitor and HP Inkjet Printer; Operating Systems: Windows 7; Processor: Intel Core i3; RAM: 4.0GB; 22" LED Monitor; w/UPS made in either Japan, USA or Europe			
		1 set Stable/Rigid Steel Table for the UTM Unit (50kN Cap.)			
		1 set Automatic Voltage Regulator (AVR) for the UTM unit			
		1 set Air Compressor Unit for Pneumatic Grips			
		~With Calibration Certificate (calibration/verification of extensometer to be performed during commissioning. A Verification Certificate will be provided once done)			
		Country of Origin: Japan			
		Warranty Period: Three (3) years on service and One (1) year on parts after commissioning			
		Includes off-shore training package abroad for four (4) ITDI personnel who will operate the UTM unit			
		<i>Jan 02/03</i> KENNETH B. TRIA Project: Integration of Testing Services for Rubber.....			
		ROCHEL LEE C. DELUTA Administrative Officer V			
		END-USER: CHARGE TO: PREPARED BY:			
		page 6 of 6 pages			

(Total Amount in Words) **Five million one hundred one thousand two hundred fifty pesos & 00/100**

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Conforme: _____
 (Signature over printed name)

 (Date)

Very truly yours,
MARIA PATRICIA V. AZANZA, Ph.D.
 Director

Requisitioning Office/Dept. HERMELINA H. BION Chief-STD	Funds Available: SOLEDAD S. REYES Accountant IV <i>2/17</i>	Amount ALOBS No. PCLEERU-41A
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PO form/PPS/mel

FINANCIAL MANAGEMENT DIVISION

Date Time
1/27/16