

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

22. BMTF

Supplier : INSTRUMIX SUPPLIER, INC. Unit 433/4 34 Cityland Pasong Tamo, Tower2210, Don Chino Rocas Avenue, Makati City, 1230, Philippines	P.O. No. : GIAE-PO-2022-03-0077
Address : Makati City, 1230, Philippines	Date : March 04, 2022
TIN :	Mode of Procurement : PB

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

Place of Delivery : Metrology Building		Delivery Term : 90 to 120 CD	
Date of Delivery :		Payment Term :	
Stock/ Property No.	Unit	Description Quantity	Unit Cost Amount
1	unit	<p><i>Supply, Delivery, Installation & Commissioning</i></p> <p>SHIMADZU UNIVERSAL TESTING MACHINE Autograph: Model AGS-50NX (Table-Top)</p> <p>FEATURES: Dual-Column Tester With Built-in Operation Panel on the machine Operation Panel enables performing test even without PC Connection (Stand Alone) Operation Panel allows Force and Stroke display With Force auto-zero and auto-calibration functions Force Measurement Accuracy: ±1% of displayed test force from 1/500 to 1/1 of load cell capacity Interchangeable Load Cell Rangeless Data Measurement Enables high-speed test data sampling: 1 ms (1kHz) Allows performing the following tests without PC: Single and Cycle Tests with USB interface (for PC connection) With USB Interface (for optional PC Connection)</p> <p>Specifications: Load Frame Capacity : 10 kN (1,000 kilograms) Loading Method : Direct, high precision, constant-rate strain control using non-backlash precision ball-screw drive 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 Class1, EN 10002-2 Grade 1, ISO 7500-1 Class1, BS1610 Class1, DIN51221 Class1, and ASTM E4 Test Force Calibration : Automatic Calibration – Tensile and Compression Forces Crosshead Speed Range : Free step-less setting 0.001 mm/min ~1000 mm/min</p>	2,700,000.00 2,700,000.00

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22. 8917F

Supplier : INSTRUMIX SUPPLIER, INC. Unit 433/4 34 Cityland Pasong Tamo, Tower2210, Don Chino Rocas Avenue, Makati City, 1230, Philippines Address : TIN :	P.O. No. : GIAE-PO-2022-03-0077 Date : March 04, 2022 Mode of Procurement : PB
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		Place of Delivery : Metrology Building Date of Delivery : Maximum return speed : 1500 mm/min Crosshead Speed Precision : ±0.1% Crosshead Speed and Permitted Test Force: Maximum range <i>load cell capacity across entire span</i> Crosshead-Table Clearance: Max. 1200 mm Effective Test Width : 425 mm Crosshead Position Detection Measurement and Display Methods: Optical encoder measurement, digital display Precision : Within ±0.1% of indicated value or ±0.01 mm whichever is larger. Sampling Speed : 1 ms max. Test Method Files : 40 files (20 files PC Link, 20 files stand-alone controller) Standard Functions : <ul style="list-style-type: none"> • Automatic reading of load cell characteristic values • Test force stroke display function, stress display <i>function</i>, stroke display function, position display function • External analog input (2 channels) • External digital input (2 channels) • Automatic Test Force and Stress control (with auto <i>tuning</i>) • Automatic Strain control (with auto calibration) • Test force auto zero/ auto calibration • Break detection/ auto return • Load Cell overload detection • Stress value display/extensometer value display • Touch-load detection function Dimensions and Weight : Main Frame: 653mm x 520mm x 1603mm Weight: Approx. 85 kg. Power Requirements: Single phase, 100/120/240 V AC (switching type) 50/60Hz., 1.2 kVA Power Consumption: 300 W Voltage Fluctuation: ±10% max D-Class (100Ω max.) Grounding Resistance Installation Environment Temperature: 5°C~40°C Humidity: 20%~80% (No condensation) Vibration: Frequency 10 Hz. Max, Amplitude 5 μ max.			





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22 RMTF

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Date of Delivery :		Payment Term :			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		<p>Crosshead position detection: Measuring and Display Method: Optical encoder measuring and digital display Display resolution: 1 μm Precision: \pm% of indicated value or \pm0.01mm for indicated value, whichever is greater</p> <p>Crosshead control : Single-test control Power Requirements : Single phase, 100V to 150V AC, or 220 V~230 VAC, 50/60 Hz.</p> <p>Size and Weight : Approx. W400mm x D530mm x H1315mm, Approx. 55 kg.</p> <p>STANDARD FUNCTIONS: Capable to perform at STAND-ALONE or PC Controlled Auto-stop and auto-return functions for specimen breakpoint Detection. Test parameter filling function Freely settable crosshead speed measured test force value or stress value display feature</p> <p>Crosshead displacement in mm or %GL display feature Force displacement at peak and displacement at <i>breaking point</i> <i>Maximum test force display feature</i> Crosshead position manual fine adjustment feature.</p> <p>OPERATIONAL ACCESSORIES 1 set Load cell: 50N Capacity (Class 1) Accuracy: Within \pm1% max. of indicated value Accuracy Range: 1/500 \sim 1/1 of load cell rated capacity (0.01 N\sim 50 N) or (0.01 kgf. \sim 5 kgf.) Conforms to JIS B7721 Class1, ISO 7500-1 Class1, EN10002-2 Grade 1, and ASTM E4 Includes Calibration Certificate</p> <p>TENSILE TEST ACCESSORIES 1. set Upper & Lower Tensile Joints 1. set Pneumatic Flat Grips (50N) with Footvalve Unit Equipped with 1. set of File surface grip faces for thickness 0-6mm specimens Complete with Rubber-coated grip faces Allowable Temperature: -10\sim180 $^{\circ}$C Complete with Air Compressor (Local Supply)</p> <p>COMPUTER ATTACHMENT FOR CONTROL AND DATA PROCESSING 1. set COMPUTER ATTACHMENT FOR CONTROL AND DATA PROCESSING 1. Trapezium X Software Single Windows 10 based control & data processing software for: Tensile, Peel, Compression and Bend Tests</p>			

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22. 891TF

Supplier : INSTRUMIX SUPPLIER, INC.		P.O. No. : GIAE-PO-2022-03-0077	
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TIN :		Mode of Procurement : PB	
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:			
Place of Delivery : Metrology Building			
Date of Delivery :			
Stock/Property No.	Unit	Description	Amount
		<ul style="list-style-type: none"> · 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. · 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 <p>Warranty: Twelve (12) months on parts and service from the time of signing of Acceptance Certificate</p>	
END USER:		 DR. RONALDO P. PABRENO	2,700,000.00 Less: VAT 120,535.71 EWT 24,107.14 2,555,357.15
<small>(Total Amount in Words) Two million five hundred fifty five thousand, three hundred fifty seven and 14/100</small>			
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 on the undelivered item/s.			
Conforme:		Very truly yours,	
 Signature over Printed Name of Supplier Renee Gendras Date March 24, 2022		 Signature over Printed Name of Authorized Official ANNABELLE V. BRIONES, PhD Director Designation	
Fund Cluster : Travel Fund	DOE FUNDED: "Establishment of Fuel Cell R&D and Testing Facility (WEAR 1)"	ORS/BURS No. : 1700 20220 20212	
Funds Available : \$ 2,700,000.00	 Signature over: Printed Name of Assistant/Head of Accounting PATRICIA ASHLEY M. ALVARADO Division Chief	Date of the ORS/BURS: March 23, 2022	Amount: \$ 2,700,000.00

for 03 2022