

Lot 6

: CNC Machining Equipment/Attachment

APPROVED BUDGET
FOR THE CONTRACT

: Sixty Eight Million Three Hundred Thousand Six Hundred Sixteen
Pesos and 56/100 (₱68,300,616.56)

No.	Item	Agency Specifications	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	CNC Computer Aided Design and Computer-Aided Machining Software	Kindly refer to the technical specifications attached as Annex I.	26	unit			
2	CNC Lathe Performance Turning Center		1	unit			
3	5-Axis Rotary Table for Multi-Axes Simulation and CNC Machining		1	unit			
4	CNC Control Simulator (Full Function Control)		15	unit			
5	CNC Plasma Cutting Machine		1	unit			
6	Electric Box Furnace		1	unit			
7	Hardness tester		1	unit			
8	Precision Centerless Grinding Machine		1	unit			
9	Pipe Beveling Machine		1	unit			
10	Plate Beveling Machine		1	unit			
11	Universal Horizontal Milling Machine		1	unit			
12	Digital Vernier Caliper		25	pc			
13	Digital Micrometer Caliper		25	pc			
14	Combination Wrench Set		20	set			
15	Socket Wrench		21	set			
16	Screw Driver Set		25	set			
17	Allen Wrench Set		25	set			
18	Combination Pliers		25	pc			
19	Long Nose Plier		25	pc			
20	Diagonal Cutting Plier		25	pc			

No.	Item	Agency Specifications	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
21	Adjustable Wrench	Kindly refer to the technical specifications attached as Annex H.	25	pc			
22	Hacksaw with Blade		20	set			
23	Tap and Dies Set		15	set			
24	Pull-Push Rule		21	pc			
25	Spirit Level Bar		21	pc			
26	Steel Square		20	pc			
27	Try Square		20	pc			
28	Combination Square		20	pc			
29	Letter and Number Punch		20	set			
30	Screw Pitch Gauge		17	pc			
31	Digital Vernier Caliper		20	pc			
32	Angle Grinder		22	unit			
33	Portable hand drill		22	unit			

* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

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**Summary per Lot and Technical Specification
Procurement of Learning Systems for Three (3) Existing Innovation Centers of TESDA**

ANNEX I

Lot/ Item No.	Code	Technology Area/ Learning System	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	with Training	with Manual	Qty per Lot	Unit
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
6	09-000	CNC Machining Equipment/Attachment									
1	09-001	CNC Computer Aided Design and Computer-Aided Machining Software	refer to Technical Specification of Item Code 09-001	Learning System	refer to Technical Specification of Item Code 09-001	refer to Technical Specification of Item Code 09-001	1 Year	Yes	Yes	26	unit
2	09-002	CNC Lathe Performance Turning Center	refer to Technical Specification of Item Code 09-002	Learning System	refer to Technical Specification of Item Code 09-002	refer to Technical Specification of Item Code 09-002	1 Year	Yes	Yes	1	unit
3	09-003	5-Axis Rotary Table for Multi- Axes Simulation and CNC Machining	refer to Technical Specification of Item Code 09-003	Learning System	refer to Technical Specification of Item Code 09-003	refer to Technical Specification of Item Code 09-003	1 Year	Yes	Yes	1	unit
4	09-004	CNC Control Simulator (Full Function Control)	refer to Technical Specification of Item Code 09-004	Learning System	refer to Technical Specification of Item Code 09-004	refer to Technical Specification of Item Code 09-004	1 Year	Yes	Yes	15	unit
5	09-005	CNC Plasma Cutting Machine	refer to Technical Specification of Item Code 09-005	Learning System	refer to Technical Specification of Item Code 09-005	refer to Technical Specification of Item Code 09-005	1 Year	Yes	Yes	1	unit
6	09-006	Electric Box Furnace	*Technology Transfer/Training *English Manual *Oven for heat treatment *Loading Capacity: 10-15kg *Max. Temperature 2000-2500F 1000-1500C *Amps10-15 Phase1 *Watts 3000-3600 *Nema 6-20R *Power source: Voltage 220V, 50-60Hz, 3 phase	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing -Installation, Commissioning and Training	1 Year	Yes	Yes	1	unit

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
7	09-008	Hardness tester	<ul style="list-style-type: none"> *Technology Transfer/Training *English Manual *Minor Load 8-10kg *Major load: 60-150kg *Test force application: Dead weight *Test force control: Hydraulic dashpot system *Result display: Analog dial gauge *Vertical capacity:6-7" *Throat depth: 6-7" *Height: 5-30" *Width: 8-10" *Depth: 15-20" *Power source: 220VAC, 60Hz 3 phase 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing -Installation, Commissioning and Training 	1 Year	Yes	Yes	1	unit
8	09-009	Precision Centerless Grinding Machine	<ul style="list-style-type: none"> *Technology Transfer/Training *English Manual *Standard processing range: 1-60 diameter *Grinding wheel sizes: (ODxWxD): 400-455x200-205x200-250 *Adjusting wheel sizes: (ODxWxD): 200-255x200-205x200-100-110 *Grinding wheel speed: 1000-1500rpm *Adjusting wheel speed: 0-250rpm *Grinding wheel drive motor: 10-25kw *Adjusting wheel servo motor: 2-3kw *Hydraulic pump drive motor 0.5-0.75 kw *Power source: 220VAC, 60Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing -Installation, Commissioning and Training 	1 Year	Yes	Yes	1	unit
9	14-012	Pipe Beveling Machine	<ul style="list-style-type: none"> *English Manual *Functions: External and Internal Beveling *Facing *Counter boring *Weld Removal *J-prepping and Compound bevels. *Materials: Any kind of steel & exotic alloy *Recommended working range: 3"-16" Diameter *Power: Pneumatic *Option of electric: 220VAC 50-60Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing -Installation, Commissioning and Training 	1 Year	Yes	Yes	1	unit

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Lot/ Item No.	Code	Technology Area/ Learning System	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	with Training	with Manual	Qty per Lot	Unit
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
10	14-013	Plate Bevelling Machine	*English Manual *Self propelled *Max. bevel width: 40mm *Bevel angle:15-60 degree *Plate thickness: 6-60mm *Bevelling speed: 0-1.6 m/min. *Motor power: 3000 w *Motor idle speed: 800 rpm *Voltage: 220 V/60 Hz, 3-phase *Tooling: 9 changeable inserts; 80 mm diameter	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing -Installation, Commissioning and Training	1 Year	Yes	Yes	1	unit
11	14-016	Universal Horizontal Milling Machine	Specification <ul style="list-style-type: none"> • Table size: 320mm X 1325mm • Max Longitudinal travel (manual/auto): 900mm/880mm • Max transverse travel (manual/auto): 255mm/240mm • Max vertical travel (manual/auto): 410mm/390mm • Table T-slots: 0.63" (16mm) • Max rotary angle: ±45° • Maximum Workpiece Weight: 750lbs (340kg) • Distance between spindle axis table: 30mm/440mm • Spindle speed step: 18 steps • Spindle speed range: 30-1500 • Feed range of table travel: 18 steps • Overall size (L x W x H): 2294mmX2050mmX1790mm • Supply: 220VAC 60Hz 3phase Features <ol style="list-style-type: none"> 1. Z-automatic feed milling head 2. Rectangular guideway on lifting platform 3. High stability 4. Hardened on X, Y, Z axes 	Equipment	Brochure with picture and data sheet	Brochure with picture and data sheet	1 Year	Yes	Yes	1	unit

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
			5. Vertical head swivels +- 45 degree 6. X-axis travel can be with 800mm Standard accessories <ul style="list-style-type: none"> • Work light, coolant system, drill chuck, mill chuck, spindle arbors, horizontal arbors, wrenches. • Digital readouts (DRO) on X, Y, Z--AXIS. • Universal dividing head. • Index plate set • Footstock w/dead center gears and gear attachment for universal indexing and deferential indexing Clamping device <ul style="list-style-type: none"> • 100 PCS Bolt and nut M12 X 1.75 X 50 MM • 50 PCS Bolt and nut M12 X 1.75 X 100 MM • 1 Cast iron Universal milling machine vise tool steel jaws: size 8"/200 mm, width of jaw 240 mm • 1 Cast iron milling machine vise w/ swivel base • Rotary worktable with 3 jaw chuck attachment 								
			<ul style="list-style-type: none"> • Clamping kit set 5/8"Slot 1/2" Stud: (strap clamps, stud bolt, nut, parallels) • standard size angle plates: L600 x B400 x H450 • Electronic edge finder: probe 10, length 90, rotation 450 to 600RPM • Mechanical edge finder: probe 10, length 90, rotation 450 to 600RPM Milling cutters <ul style="list-style-type: none"> • 2 fluted HSS endmill 3mm to 16mm with Aluminum • 3 fluted HSS endmill 3mm to 16mm with • 4 fluted HSS endmill 3mm to 16mm • 4 fluted HSS Ball end mills 3mm to 16mm • 4 fluted HSS Roughing end mills 10 to 14mm • 4 fluted HSS Corner rounding end mills 10 to 14mm • Involute milling cutter m2.0, m2.5, m3.0, • Shell endmill 2" x 1-3/8" Cutter 3/4" Arbor Hole 10 Teeth Unc 								

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
			<ul style="list-style-type: none"> • Dovetail Cutters with Shank 6 mm: D 6.4 mm, B 8 mm, L 63 mm, Angle 7°, S 6 mm • Dovetail Cutters Shank 8 mm: D 6.4 mm, B 8 mm, L 44 mm, Angle 7°, S 8 mm • Dovetail Cutters with Shank 12 mm : D 16 mm, B 22 mm, L 65 mm, Angle 7°, S 12 mm • Carbide insert face milling cutter: Ball nose 40 mm dia • drill bit set Metric 1mm to 13mm • soluble oil coolant or cutting oil <p>- with English manual</p>								
12	15-001	Digital Vernier Caliper	<ul style="list-style-type: none"> • Stainless steel • Dual reading scales on Vernier (English reading on top and Metric reading at bottom) • (6 inches) 150 mm • Least Count = 0.02 mm 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - Accuracy testing 	1 Year	N/A	Yes	25	pc
13	15-002	Digital Micrometer Caliper	<ul style="list-style-type: none"> • LCD Digimatic • Resolution: 0.001mm • Range: 0-25 mm • With English metric conversion 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - Accuracy testing 	1 Year	N/A	Yes	25	pc
14	15-003	Combination Wrench Set	<ul style="list-style-type: none"> • 16 pcs • sizes: 6mm, 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm, 21mm, 22mm, 24mm, 27mm, 30mm and 32mm • Drop forged alloy or chrome vanadium steel construction • Lobular box end design 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - 6 feet drop on concrete test, ten times, the item should not break/deform. Scratch or kink (not greater than 2mm in diameter) on the surface of the item is still acceptable. (1 sample) 	1 Year	N/A	N/A	20	set

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
15	15-004	Socket Wrench	<ul style="list-style-type: none"> • Chrome Vanadium Steel (Cr-V) • Drive: 1/2" • Socket points: 6 points • Socket size: Metric • 18 pcs Socket: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm • Ratchet Handle: 250 mm (±5mm) • Swivel/ Power Handle: 380 mm (±5mm) • Sliding T-Handle: 300 mm (±5mm) • Universal Joint: 70 mm (±5mm) • Extension bar length: 250 mm (±5mm) • Extension bar length: 125 mm (±5mm) • With case 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	21	set
16	15-006	Screw Driver Set	<ul style="list-style-type: none"> • 4 pieces per set • Flat Blade Tip Screw Driver: <ul style="list-style-type: none"> - 6X150mm - 5X100mm • Phillips Blade tip Screw Driver: <ul style="list-style-type: none"> - 5X100mm - 6X150mm • Plastic and rubberized handle • Chrome Vanadium 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	25	set
17	15-007	Allen Wrench Set	<ul style="list-style-type: none"> • 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm, 8.0 mm, 10 mm • 5" (+/- 2%) length • Chrome Vanadium steel 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	25	set
18	15-008	Combination Pliers	<ul style="list-style-type: none"> • Overall length: 8", Steel Alloy • Handle Finish: Ergonomic grip rubberized/plastic cushion 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - 6 feet drop on concrete test, head first, ten times, the head of the item should not break/deform. Scratch or kink on the shaft/handle of the item is still acceptable. (1 sample) 	1 Year	N/A	N/A	25	pc

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
19	15-009	Long Nose Plier	<ul style="list-style-type: none"> • Overall Length: 8" ±1/2" • Material: Carbon Steel • Handle Finish: Ergonomic grip rubberized/plastic cushion 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - 6 feet drop on concrete test, head first, ten times, the head of the item should not break/deform. Scratch or kink on the shaft/handle of the item is still acceptable. (1 sample) 	1 Year	N/A	N/A	25	pc
20	15-011	Diagonal Cutting Plier	<ul style="list-style-type: none"> • Overall Length: 8" ±1/2" • Material: Carbon Steel • Handle Finish: Ergonomic grip rubberized/plastic cushion 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - 6 feet drop on concrete test, head first, ten times, the head of the item should not break/deform. Scratch or kink on the shaft/handle of the item is still acceptable. (1 sample) 	1 Year	N/A	N/A	25	pc
21	15-012	Adjustable Wrench	<ul style="list-style-type: none"> • 10 inches (254 mm) length • Forged heat-treated alloy steel • Chrome 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	25	pc
22	15-013	Hacksaw with Blade	<ul style="list-style-type: none"> • Adjustable aluminum alloy frame with rubber/plastic grip handle • 90° adjustable blade angle • 12 inches bi-metal hacksaw blade • 24 TPI 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	20	set
23	15-016	Tap and Dies Set	<ul style="list-style-type: none"> • Alloy Steel • Metric 20 pcs Threads • Sizes: M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1.0, M7 x 1.0, M8 x 1.25, M9 x 1.25, M10 x 1.5, M12 x 1.75 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	15	set

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
24	15-019	Pull-Push Rule	<ul style="list-style-type: none"> Blade length 8m/26ft Blade width 1" High impact ABS case with durable rubber Corrosion resistant tru-zero end 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	21	pc
25	15-020	Spirit Level Bar	<ul style="list-style-type: none"> Aluminum frame Non Magnetic 3 vials 36" length 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	21	pc
26	15-021	Steel Square	<ul style="list-style-type: none"> Carpenter's framing square: 2" x 16" x 24" Aluminum Steel Engraved Double graduation inches/cm 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	20	pc
27	15-024	Try Square	<ul style="list-style-type: none"> Size: 8" x 12" Thickness: 1.8-2 mm Material: Spring Steel Handle Material: Aluminum Alloy Engrave Metric and English Graduations 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	20	pc
28	15-026	Combination Square	<ul style="list-style-type: none"> Stainless Steel (12 inches) 300 mm Combination Square Set (Blade and Handle) 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	20	pc
29	15-015	Letter and Number Punch	<ul style="list-style-type: none"> Hardened Steel 36pcs 4 mm height (letter and number) 	Tools	Brochure with picture and data sheet	Brochure with picture and data sheet	1 Year	N/A	N/A	20	set
30	15-025	Screw Pitch Gauge	<ul style="list-style-type: none"> Metric 51 leaves 0.4 to 7 mm pitch 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	17	pc

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
31	15-027	Digital Vernier Caliper	<ul style="list-style-type: none"> • Digital Stainless Steel Vernier Caliper • Range: 0-300 mm/0-12 Inches • Automatic power off • With Data output function • SR44 battery • Coolant, water, dust and oil proof • English and Metric • Alarm low voltage, counting value • Operating temp 0-40 deg C • With thumb roller 	Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - Accuracy testing 	1 Year	N/A	Yes	20	pc
32	15-028	Angle Grinder	<ul style="list-style-type: none"> • Portable • 4" capacity • Input Voltage: 220-240V, 50-60Hz 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	22	unit
33	15-029	Portable hand drill	<ul style="list-style-type: none"> • Input Power: 500W-850W • Input Voltage: 220-240V, 50-60Hz • No load speed: 0~380/1300rpm 	Tools	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	22	unit

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TECHNICAL SPECIFICATION

Name of The Learning System	CNC Computer Aided Design and Computer-Aided Machining Software
Item Code	09-001
Technology Area(s)	CNC Machining

Required Topics/Lessons

Specifically, this software will engage the learner to perform and articulate the following:

- Perform Computer Aided Design Using Draw tools
- Perform computer aided design using modify tools
- Perform computer aided design through 2D and 3D modeling surfaces and solids
- Create Toolpaths for CNC Milling and CNC turning machine operations in Multi-axes machine environment
- Perform verify/ dry run/ simulations of created tool paths
- Convert into standard CNC G-code programs the approved tool paths and/ or transfer post processed codes into a CNC Machine

Software:

CAD/CAM Software consists of the following specification and features:

- Integrated CAD for CAM Software
- Full 3D CAD Modeling
- Context-sensitive help available from all dialog boxes
- Powerful Multi Axis cutting
- Mill-turn for lathe
- Easy pocketing, contouring, and drilling
- Intelligent, stock –aware toolpaths
- Robust 3D solids and surface machining
- Complete tool library and custom tool support
- With Dynamic Motion feature
- Accelerated Finishing option
- Advanced Toolpaths option
- With Machine Simulation
- Live Tooling
- Intelligent ID and OD Roughing
- Compatible with SOLIDWORKS® environment
- Complete with Dongle key
- Education Licensed and perpetual software

The software should be compatible with MS Windows 10 and/or MAC

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

Signature over Printed Name of
Authorized Representative

Date

Training:

The winning bidder shall provide at least five (5) days training for this learning system. The training will cover the following topics:

- Configuration, set-up and maintenance of the software
- Utilization of the software and walkthrough with the learning activities associated with the software.

The beneficiary TTI will cover the costs of the training venue, snacks and meals during training while the supplier will cover all other costs such as, but not limited to:

- Honoraria of the trainer;
- Accommodation of the trainer;
- Supplies and materials required for the training;
- Reproduction of the learning materials

Other requirements:

Requirements	Printed copy	Digital copy
• Includes instructional video covering topics indicated in this specification		X
• Includes Instructions to at least 25 exercises with solutions	X	X
• Includes Learner's workbook and instructor's manual	X	X
• Quizzes and test(s) with key to corrections	X	X
• Presentation materials covering all topics in this specification	X	X
• User's manual	X	X

All materials are in English language.

Post Evaluation Parameter(s):

- Brochure/catalog with picture of equipment
- Technical data sheet
- Curriculum/outline of learning activities with description
- Teaching aids, which may include, reading materials, activity sheets and/or video. The supplier either can provide these materials in digital format using secured access or printed form.

Inspection and Acceptance Parameters:

- Checking the conformity with the quantity including parts and accessories
- Checking the conformity of software vis-a-vis offered specifications
- Checking of teaching aids vis-a-vis listed course outline
- Functionality testing
- Training on specified lessons

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

Signature over Printed Name of
Authorized Representative

Date

TECHNICAL SPECIFICATION

Name of The Learning System	CNC Lathe Performance Turning Center
Item Code	09-002
Technology Area(s)	CNC Machining

Brief Description:

A CNC Lathe Machine equipment capable of high-performance multi-axis CNC Machining and Programming. Set-up for flexibility, extreme rigidity and high thermal stability.

Required Topics/Lessons:

Specifically, this learning system will cover the following topics:

- Create CNC Programs using G and M Codes on an Actual Multi-Axes CNC Lathe Machine
- Perform 2/3 Axes Programming and Simulated Multi-Axes CNC Machining
- Simulate 2D/3D graphical dry run of Tool Paths and CNC Machining Operations
- Perform Actual Tool Length Compensation and Measurements (Basic & Advance)
- Perform Actual Set-up Work Offsets (Basic & Advance)
- Perform Actual CNC Lathe Multi-Axis Machine Operations
- Perform Actual manual operations using Jog Mode on a Multi-Axes Environment
- Perform Actual Manual Data Input (MDI)
- Identify different machine alarms and how to troubleshoot it.
- Perform routine maintenance checks on oil, coolant, air supply indicators.
- Perform transfer of CAD CAM Programs using USB, Ethernet and Wi-Fi Connectivity

Hardware Requirements:

CNC Multi Axis Lathe Machine consists of the following specification and components:

- Spindle Speed: 6000 RPM
- Drive System: Direct Speed, Belt Drive
- Turret/ Tool Capacity: 12 Station Hybrid BOT/VDI Tool Turret
- Live Tooling: 4000-RPM Live Tooling with C Axis
- Probing System: Automatic Tool Presetter
- CNC Control:
 - Visual Part Programming System
 - Media Display M-Code:M130
 - Remote Monitoring
 - Rigid Tapping
 - Spindle Orientation to provide repeatable spindle positioning accurate to 0.5 degree
 - Ethernet Interface
 - Wifi Connection for the CNC Control
 - Standard Program Memory, 1 GB

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder	Signature over Printed Name of Authorized Representative	Date
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- Spindle Power: 15 HP / 11.2kW
- Input AC Voltage: 220VAC/ 3 Phase / 60 hz
- Full Load Amps: 40 A
- Spindle Nose: A2-5
- Spindle Bore Diameter: 58.7 mm
- Chuck Size: 165 mm
- Max Cutting Diameter: 356 mm
- Max Cutting Length: 406 mm
- Bar Capacity: 44 mm
- Max Part Diameter: 419 mm
- Over Wedge: 419
- X Axis Travel: 200 mm
- Z Axis Travel: 406 mm
- Turrets & Live tooling
- Chip & Coolant Management: 30 Gallon Coolant Tank
- Auto Door Option for Machine
- Air Requirements: 4scfm @ 100psi
- 6.5" Hydraulic Chuck, A2-5
- Axial Driven Toolholder, ER-32
- Radial Driven Toolholder, ER-32
- Manual Tailstock with Hydraulic Quill
- Machine Size LxWxH: 2621x1827x1864mm
- Toolings:
 - 1 Set of Bolt-on Tool Holder kit, 3/4"
 - 1 Set VDI Tool Holder Kit
 - Bolt-on 1" ID Boring Bar Holder
 - Bolt-on 1.25" ID Boring Bar Holder
 - 1 Set of ER-32 Collet
- Dimension: The equipment when installed should not consume more than 8sqm space and not over 1.9m for the overall height.

Training:

The winning bidder shall provide at least three (3) days training for this learning system. The training will cover the following topics:

- Configuration, set-up and maintenance of the training equipment
- Utilization of the training equipment and walkthrough with the learning activities associated with the training equipment.

The beneficiary TTI will cover the costs of the training venue, snacks and meals during training while the supplier will cover all other costs such as, but not limited to:

- Honoraria of the trainer;
- Accommodation of the trainer;
- Supplies and materials required for the training;
- Reproduction of the learning materials.

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

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Other requirements:

Requirements	Printed copy	Digital copy
• Includes instructional video covering topics indicated in this specification		X
• Includes simulation software (single machine)		X
• Includes Instructions to at least 25 exercises with solutions	X	X
• Includes Learner's workbook and instructor's manual	X	X
• Quizzes and test(s) with key to corrections	X	X
• Presentation materials covering all topics in this specification	X	X
• Equipment service and operation manual	X	X

All materials are in English language.

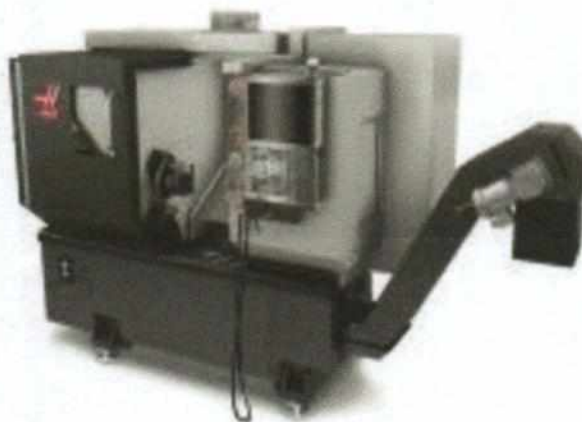
Post Evaluation Parameter(s):

- Brochure/catalog with picture of equipment
- Technical data sheet
- Curriculum/outline of learning activities with description
- Teaching aids, which may include, reading materials, activity sheets and/or video. The supplier either can provide these materials in digital format using secured access or printed form.

Inspection and Acceptance Parameters:

- Checking the conformity with the quantity including parts and accessories
- Checking the conformity of hardware vis-a-vis offered specifications
- Checking of teaching aids vis-a-vis listed course outline
- Functionality testing
- Commissioning and training

Sample Image:



Picture for reference only

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder **Signature over Printed Name of Authorized Representative** **Date**

TECHNICAL SPECIFICATION

Name of The Learning System	5-Axis Rotary Table for Multi-Axes Simulation and CNC Machining
Item Code	09-003
Technology Area(s)	CNC Machining

Brief Description:

This CNC Rotary Table (trunnion) for 5 Axes CNC Milling Machine will upgrade the former 4 axis HAAS VF-2 CNC Milling Machines to become 5 Axes CNC Milling Machine.

Required Topics/Lessons:

Specifically, this equipment will engage the learner to perform the following:

- Perform 4 & 5 Axes CNC Milling Machine Operations
- Perform Actual Tool Length Compensation and Measurements (Advance)
- Perform Actual Set-up Work Offsets (Advance)
- Perform Actual CNC Milling Multi-Axis Machine Operations
- Perform Actual manual operations using Jog Mode on a Multi-Axes Environment
- Perform Actual Manual Data Input (MDI) on a Multi-Axes Environment
- Identify different machine alarms and how to troubleshoot it in a Multi-Axes Environment
- Perform routine maintenance checks on oil, coolant, air supply indicators.
- Perform transfer of CAD CAM Programs using USB, Ethernet and Wi-Fi Connectivity

Hardware:

5 Axis Rotary Table (Trunnion) consists of the following specification and components:

- 4th and 5th Axis Drives and Software version M18.29B or later for true 4th and 5th Axis Operation.
- Platter Diameter: 100 mm
- Max Weight on Platter: 6.8kg
- Part Swing Max: 214 mm
- Spindle –A (Tilt)
 - - Max Speed: 1000° / Sec
 - - Max Torque: 48Nm
 - - Gear Ration 8:1
 - - Brake Torque @ 100psi/6.9 bar: 136Nm
 - - Repeatability: 30 arc-sec
 - - Travel: 120 Degrees
 - - Indexing Resolution: 0.001 degrees

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- Spindle – C (Rotary)
 - Max Speed: 1000° / Sec
 - Max Torque: 22Nm
 - Gear Ration 7:1
 - Brake Torque @ 100psi/6.9 bar: 68Nm
 - Repeatability: 30 arc-sec
 - Travel: 360 Degrees
 - Indexing Resolution: 0.001 degrees
- Air Requirements: 150 PSI
- Rotary Table Weight: 77-80Kg

Other requirements:

Requirements	Printed copy	Digital copy
● Includes instructional video covering topics indicated in this specification		X
● Includes simulation software (single machine)		X
● Includes Instruction to learning exercises:	X	X
● Presentation materials covering all topics in this specification	X	X
● Equipment service and operation manual	X	X

Training:

The winning bidder shall provide at least three (3) days training for this learning system. The training will cover the following topics:

- Configuration, set-up and maintenance of the training equipment
- Utilization of the training equipment and walkthrough with the learning activities associated with the training equipment.

The beneficiary TTI will cover the costs of the training venue, snacks and meals during training while the supplier will cover all other costs such as, but not limited to:

- Honoraria of the trainer;
- Accommodation of the trainer;
- Supplies and materials required for the training;
- Reproduction of the learning materials

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

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Post Evaluation Parameter(s):

- Brochure/catalog with picture of equipment
- Technical data sheet
- Curriculum/outline of learning activities with description
- Teaching aids, which may include, reading materials, activity sheets and/or video. The supplier either can provide these materials in digital format using secured access or printed form.

Inspection and Acceptance Parameters:

- Checking the conformity with the quantity including parts and accessories
- Checking the conformity of hardware vis-a-vis offered specifications
- Checking of teaching aids vis-a-vis listed course outline
- Functionality testing
- Commissioning and training

Sample Image:



Picture for reference only

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder Signature over Printed Name of Authorized Representative Date

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TECHNICAL SPECIFICATION

Name of The Learning System	CNC Control Simulator (Full Function Control)	
Item Code	09-004	
Technology Area(s)	CNC Machining	

Brief Description:

An External CNC Machine Control Simulator for CNC technology training which uses a real, full-function CNC control panel and keypad. This is an add-on to the existing CNC machine of the beneficiary center, as such it should be compatible with Haas VF-2 vertical milling machine.

Features include:

- Includes Simulated Graphic dry run
- Tool length measurement
- Work Offsets,
- True DNC
- Visual Programming System
- CNC Mill and Lathe Control Software
- 3/4/5 Axes
- Built-in USB, Ethernet, and WiFi Connectivity
- Software is Upgradable to Future Versions
- Industry 4.0 Ready

Required Topics/Lessons:

Specifically, this learning system will cover the following topics:

- Create CNC Programs using G and M Codes for both CNC Lathe and Milling Machine Operations.
- Perform 2/3/4/5 Axes Programming and Simulated Multi-Axes CNC Machining
- Simulate 2d/3d graphical dry run of Tool Paths and CNC Machining Operations
- Perform Tool Length Compensation and Measurements
- Set-up Work Offsets
- Engage the learner to manipulate actual controls of a CNC machine and familiarize itself on the different functions of each button.
- Perform Edit mode
- Perform Memory Run
- Perform manual operations using Jog Mode
- Perform Manual Data Input (MDI)
- Identify different machine alarms and how to troubleshoot it.
- Perform routine maintenance checks on oil, coolant, air supply indicators.
- Perform transfer of CAD CAM Programs using USB, Ethernet and Wi-Fi Connectivity

Hardware Requirements:

CNC Control Simulator consists of the following specification and components:

- Stand Alone exact replica of a CNC Control Simulator.
- Mill and lathe control Software

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Date



- Supports 3/4/5 Axes Programming and Simulations
 - Simulates graphic dry run, tool length measurement, work offsets, true DNC and Visual Programming System
 - Simulator can be mirrored on a computer or mobile device, and projected for classroom display.
 - Built-in USB, Ethernet, and WIFI Connectivity
 - Supports step-by-step templates and 3D Graphics to help the user quickly create programs for simple machining operations.
 - Control Simulator Software is upgradable to future versions.
- Single Phase 220VAC, 60Hz
 - Dimension: The equipment when installed should not consume more than 6sqm space and not over 1m for the overall height.

Training:

The winning bidder shall provide at least three (3) days training for this learning system. The training will cover the following topics:

- Configuration, set-up and maintenance of the training equipment
- Utilization of the training equipment and walkthrough with the learning activities associated with the training equipment.

The beneficiary TTI will cover the costs of the training venue, snacks and meals during training while the supplier will cover all other costs such as, but not limited to:

- Honoraria of the trainer;
- Accommodation of the trainer;
- Supplies and materials required for the training;
- Reproduction of the learning materials

Other requirements:

Requirements	Printed copy	Digital copy
• Includes instructional video covering topics indicated in this specification		X
• Includes simulation software (single machine)		X
• Includes Instructions to at least 25 exercises with solutions	X	X
• Includes Learner's workbook and instructor's manual	X	X
• Quizzes and test(s) with key to corrections	X	X
• Presentation materials covering all topics in this specification	X	X
• Equipment service and operation manual	X	X

All materials are in English language.

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date

Post Evaluation Parameter(s):

- Brochure/catalog with picture of equipment
- Technical data sheet
- Curriculum/outline of learning activities with description
- Teaching aids, which may include, reading materials, activity sheets and/or video. The supplier either can provide these materials in digital format using secured access or printed form

Inspection and Acceptance Parameters:

- Checking the conformity with the quantity including parts and accessories
- Checking the conformity of hardware vis-a-vis offered specifications
- Checking of teaching aids vis-a-vis listed course outline
- Functionality testing
- Commissioning and training

Sample Image:



Picture for reference only

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

Signature over Printed Name of
Authorized Representative

Date

A handwritten signature in black ink, consisting of a stylized, jagged line.

TECHNICAL SPECIFICATION

Name of The Learning System	CNC Plasma Cutting Machine
Item Code	09-005
Technology Area(s)	CNC Machining

Required Topics/Lessons:

1. History of Plasma Arc Cutting
2. Plasma Arc Cutting Safety
3. CNC Plasma Cutting Machine
4. CNC Software & Coordinate System
5. G-Code Programming
6. Introduction to Tool Paths
7. CNC Plasma Cutting Driver Software interface
8. Test cutting
9. Introduction to CAD
10. Importing Images to CAD
11. Basic CAD Project

Specification

- Working area 4ft x 8ft
- Cutting capabilities: Mild Steel plate 22mm max, Stainless steel 20mm max, Aluminum 20mm max
- Max travel speed: 15,000 mm/min
- Electrical input: 220VAC, 3 phase, 60 Hz
- CAD/CAM Software
- Accessories:
 - Consumable starter kit (swirl ring, electrode, nozzle, retaining cap, shield)
 - Piston type air compressor
- Dimension: The equipment when installed should not consume more than 6sqm space and not over 1.9m for the overall height.

Other requirements:

Requirements	Printed copy	Digital copy
● Includes instructional video covering topics indicated in this specification		X
● Includes simulation software (single machine)		X
● Includes Instruction to learning exercises covering the listed lessons:	X	X

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

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Date



Requirements	Printed copy	Digital copy
<ul style="list-style-type: none"> ● Presentation materials covering all topics in this specification 	X	X
<ul style="list-style-type: none"> ● Equipment service and operation manual 	X	X

All materials are in English language.

Training:

The winning bidder shall provide at least three (3) days training for this learning system. The training will cover the following topics:

- Configuration, set-up and maintenance of the training equipment
- Utilization of the training equipment and walkthrough with the learning activities associated with the training equipment.

The beneficiary TTI will cover the costs of the training venue, snacks and meals during training while the supplier will cover all other costs such as, but not limited to:

- Honoraria of the trainer;
- Accommodation of the trainer;
- Supplies and materials required for the training;
- Reproduction of the learning materials

Post Evaluation Parameter(s):

- Brochure/catalog with picture of equipment
- Technical data sheet
- Curriculum/outline of learning activities with description
- Teaching aids, which may include, reading materials, activity sheets and/or video. The supplier either can provide these materials in digital format using secured access or printed form

Inspection and Acceptance Parameters:

- Checking the conformity with the quantity including parts and accessories
- Checking the conformity of hardware vis-a-vis offered specifications
- Checking of teaching aids vis-a-vis listed course outline
- Functionality testing
- Commissioning and Training

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

_____	_____	_____
Name of Company/Bidder	Signature over Printed Name of Authorized Representative	Date



Sample Image:



Picture for reference only

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

**Signature over Printed Name of
Authorized Representative**

Date

A handwritten signature or mark in black ink, consisting of a stylized, cursive-like shape.

Lot 7 : Welding Machine

APPROVED BUDGET FOR THE CONTRACT : One Million One Hundred Fourteen Thousand Six Hundred Eighty-Seven Pesos and 62/100 (₱1,114,687.62)

No.	Item	Agency Specifications	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	4-in-1 Welding Machine	Kindly refer to the technical specifications attached as Annex J.	3	unit			
2	Oxy-Acetylene Welding Set		3	unit			

* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

Signature over Printed Name of
Authorized Representative

Date

**Summary per Lot and Technical Specification
Procurement of Learning Systems for Three (3) Existing Innovation Centers of TESDA**

ANNEX J

Lot/ Item No.	Code	Technology Area/ Learning System	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	with Training	with Manual	Qty per Lot	Unit
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
7	12-000	Welding Machine									
1	12-002	4-in-1 Welding Machine	<p>*Multi-process capability welding equipment</p> <ul style="list-style-type: none"> - Stick welding - DC TIG - Pulsed DC TIG - MIG - Pulsed MIG - Flux-Cored <p>*Voltage:220VAC-60 Hz *with accessories: MIG torch assembly, argon or CO2 regulator with Flowmeter welding mask hand type with lens, 3 meters welding cable, 3 meters ground cable w/ ground clamp *Technology Transfer/Training *English Manual</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing -Installation, Commissioning and Training 	1 Year	Yes	Yes	3	unit
2	12-014	Oxy-Acetylene Welding Set	<ul style="list-style-type: none"> • Handle mixer cutting attachment • Check valves • Cutting tips • Welding tip • Single stage oxygen regulator • Single stage fuel gas regulator <p>Accessories</p> <ul style="list-style-type: none"> • 6 m hose (4300591) • goggles (4304482) • Lighter (26s) • Flints (26l) • Tip cleaner • Cylinder key <p>2 cylinders Acetylene Tank and 4 cylinders Oxygen Tank</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing -Installation, Commissioning and Training 	1 Year	Yes	Yes	3	unit

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder

Signature over Printed Name of
Authorized Representative

Date

Lot 8 : Fabrication Machines/Equipment

APPROVED BUDGET FOR THE CONTRACT : Twenty-Three Million One Hundred Forty-Three Thousand Six Hundred Seventeen Pesos and 69/100 (P23,143,617.69)

No.	Item	Agency Specifications	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Hydraulic Press Brake Machine	Kindly refer to the technical specifications attached as Annex K.	1	unit			
2	Hydraulic Shearing Machine		1	unit			
3	Lock Forming Machine		1	unit			
4	Hydraulic Plate Bending Roller Machine		1	unit			
5	Hydraulic Iron Worker Machine		1	unit			
6	Automatic Sheet and Plate Rolling Machine		1	unit			
7	Multi-function Pipe Bending Machine		2	unit			
8	Power Hacksaw		2	unit			
9	Horizontal Bandsaw		1	unit			
10	Shaper Machine		1	unit			

* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

Name of Company/Bidder	Signature over Printed Name of Authorized Representative	Date
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