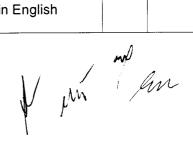
	Procurement of	of Training Tools and Equipment for the Highe DAC Qualification of the 23 CenTExs	r Level	
	RTC-Cebu - TE	SDA 7 Compound Arcbishop Reyes Avenue, C	ebu City	
NO.	ITEM	AGENCY SPECS	QTY	UNIT

Lot 7	CNC Lathe and Milling	Machine Operation NC III		
1	CNC Milling Machine	General Specifications: CNC Vertical Milling Machine Table Size: Length 750 mm - 1000 mm; Width 350 - 550 mm, Table Load Capacity: 500-1400 kg, Travel X- axis: mm - 850 mm, Y - axis: 400 mm - 600 mm, Z - axis: 500 mm - 600 mm, Maximum Spindle speed: 8,000 - 12,000 rpm; Direct Drive, Spindle Taper: BT 40, Tool Storage Capacity: 20 tools - 30 tools only, Electricals: 220 volts / 3 phase / 60 Hz, Spindle Motor Power: 20 hp - 30 hp, Max Rapids on (x, y, z): 25.4 m/ min - 42 m/ min; Servomotors on all axes, 4th Axes Drive and wiring, Coolant system, Max tool diameter: 80 -95 mm, bearing lubrication: air / oil/ grease injection Important features Included: • 3 Units External CNC CONTROLLER SIMULATOR (Stand-alone exact replica (duplicate) of the CNC Controller of the machine for off-machine training on CNC programming, operation and simulation) • 4th Axis Rotary Table (Can be mounted horizontal / vertical, Worktable diameter: 160mm -350mm diameter, Accuracy: ±15sec, Servo Motor, complete with accessories) Machine Accuracy & Control Specifications • Control type - Dialog, Conversational/ Intuitive Programming Sys. /EIA/ ISO PROGRAMMING • Working Memory - 2 mb up to 1 gb Minimum features and accessories included: • Fully enclosed machining center • USB port • ethernet interface • Automatic tool length measuring device/ Touch probe • Automatic voltage regulator 30KVA, 3 Phase, 220V • Air Compressor • Specified machining tool list: • 1 pc Drill Chuck • 1 pc Face mill arbor • 20 pcs Carbide Inserts • 1 set HSS End mills • 1 set HSS Drill Bits • 1 pc BT 40 Spindle taper cleaner • 1 pc mill vise Coolant (pail) - 1 pc. • With operations/ maintenance manual in English Language	1	unit



Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs RTC-Cebu – TESDA 7 Compound Arcbishop Reyes Avenue, Cebu City NO. ITEM AGENCY SPECS QTY UNIT • 1 year warranty for spare parts and 2 years in support service • Includes Machine Commissioning and Training

		 1 year warranty for spare parts and 2 years in support service Includes Machine Commissioning and Training 		
2	Lathe Machine (Conventional)	General Specifications: Horizontal Lathe Capacity • Max swing over bed: 380 mm - 560 mm • Max swing over gap: 600 mm - 780 mm • Max swing over cross-slide: 200 mm - 380 mm • Distance between centers: 1000 mm • Bed width: 220 mm - 350 mm • Cross slide travel: 230 mm - 300 mm Main Spindle • Spindle bore: Φ50 mm - Φ80 mm • Max Spindle speed: more than 1600 rpm Tailstock • Tailstock spindle taper: MT 3, 4 or 5 Threading • Metric pitch threads: 0.2-14 mm/ pitch • Inch pitch threads: 2-75 TPI Feeding Range • Range of longitudinal feeds: 0.04-1 mm/rev • Range of cross feeds: 0.02-1.25 mm /rev Motor • Power Supply: 220 volts 60hz • Phase: 3 phase • Main spindle motor: 5 - 10 hp • Coolant pump motor: 1/8 hp Accessories included: • 1 pc - 3 Jaw chuck, 4 Jaw chuck , Face plate • 1 pc - Ivive center , dead center • 1 pc - Steady rest, follower rest • 1 set - lathe dog (straight and bend tail) • 1 set tool holder (left hand, right hand, neutral & threading tool) • 1 pc - drill chuck with arbor • quick change tool post • with Operations/ maintenance manual in English • With Digital Read Out • with sleeve for MT 4 and MT 5 Machines • 1 year warranty for spare parts and 2 years in support service • Includes Machine Commissioning and Training	1	unit
3	Milling Machine (Conventional)	General Specifications: Vertical Turret Type Milling Machine • Table Size: Length 1270 mm x Width 254 mm • Longitudinal Travel (x): 800 mm - 950 mm • Cross Travel (y): 305 mm - 410 mm	1	unit

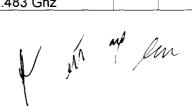
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	Procurement	DAC Qualification of the 23 CenTExs						
	RTC-Cebu – TE	SDA 7 Compound Arcbishop Reyes Avenue, Cebu	City					
NO.	ITEM	AGENCY SPECS	QTY	UNIT				
		Variable Travel ((/non) /n): 205 mm						
		 Vertical Travel (Knee) (z): 305 mm - 410 mm Max work piece weight: 300 - 400 kg 						
		Spindle Motor: 2 hp to 3 hp						
		Maximum Spindle Speed: 2500 rpm-5500 rpm						
		• Electricals: 220 V/ 3 phase/ 60 Hz						
		Accessories included:						
		• 1 set - Dividing Head gear ratio 40:1 w/ sets of						
		gear, footstock, 3 indexing plates, sector arm						
		• 2 sets of module cutter (mod 1.5, 2.0, 2.5)						
		Spindle Arbor/ Milling Arbor						
		 with operations/ maintenance manual in English 						
		Language						
		1 year warranty for spare parts and 2 years in						
		support serviceIncludes Machine Commissioning and Training						
		• Includes Machine Commissioning and Training	į					
Lot 14	I. Information and Cor	nmunication Technology	1					
		i7 (2.5GHZ- Minimum Speed)						
	\$ 1	8Gb RAM DDR4						
		512GB SSD						
		·4GB Dedicated Video Card 15.6" Display						
1	Laptop	Mouse	13	unit				
'	Laptop	Wired and wireless Ethernet connection		"""				
		At least two (2) USB Port						
		Windows 10 or latest OS						
		Microsoft Office (Full Installation)						
		Educational License						
		With Print, Scan, Copy, Fax features						
		Tank type ink system						
		Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black)		,				
2	Inkjet Printer	Can scan documents over network environment	3	unit				
		Sun soun documents over network environments						
		Photo Quality						
		WiFi Connectivity						
		1 WAN and 4 LAN ports 802.11g, 802.11n						
3	Wireless Router	USB port for shared printing/storage	3	unit				
•	711101000110001	English firmware/ User interface						
		Supports home and cloud application						
		65 inch						
		High Definition (3,840 × 2,160)						
	One and Tr	SMART Features		= 14				
4	Smart TV	Ethernet and Wireless Connectivity	1	unit				
		USB, HDMI and A/V port with wall mount provision						
		Multi-system compatible						
		128 GB Storage						
5	Tablet	·WiFi	4	unit				
		With installed MS Office Application						
6	Network Attached	8 TB	1	unit				

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs RTC-Cebu – TESDA 7 Compound Arcbishop Reyes Avenue, Cebu City NO. ITEM AGENCY SPECS QTY UNIT

	Storage	At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface With file and media server Windows and MAC Compatible		
7	Multimedia Projector	Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless	1	unit
8	CCTV System	8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style	1	unit
9	Drone	Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller "Max Transmission Distance: 2.400 - 2.483 Ghz	1	unit



		f Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs		
	,	DA 7 Compound Arcbishop Reyes Avenue, Cebu C		
NO.	ITEM	AGENCY SPECS	QTY	UNIT
		(Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System, Downward Vision System Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground		
		Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800		
		(Manual) Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720		
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)		
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required Charger Voltage: 17.4 V		
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video	1	unit

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs RTC-Cebu – TESDA 7 Compound Arcbishop Reyes Avenue, Cebu City NO. ITEM AGENCY SPECS QTY UNIT

		recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting		
	<u> </u>	and ISO 25,600 built in wi-fi with NFC		
ot 1	5. Science Lab (Chemis			
1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity	10	рс
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс
3	Test Tubes	Glass material Large 15 ml capacity	12	рс
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	рс
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рc
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	pc
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment.	10	set

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	Procurement	of Training Tools and Equipment for the High DAC Qualification of the 23 CenTExs	her Level	
	RTC-Cebu - TE	SDA 7 Compound Arcbishop Reyes Avenue,	Cebu City	
NO.	ITEM	AGENCY SPECS	QTY	UNIT

		Calibrated in newtons		
15	Vernier Caliper	Science ware Digi-MAX Double scales Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight	10	set
16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing	1	unit
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	7	рс
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс

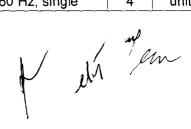


		of Training Tools and Equipment for the Higher Lev DAC Qualification of the 23 CenTExs				
NO.	RTC-Cebu – TESDA 7 Compound Arcbishop Reyes Avenue, Cebu City NO. ITEM AGENCY SPECS QTY UN					
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс		
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set		

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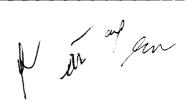
	Procurement of Training Tools and Equipment for the Higher Level				
	DAC Qualification of the 23 CenTExs				
	Balicuatro College of Arts and Trades – Allen, Northern Samar				
NO.	ITEM	AGENCY SPECS	QTY	UNIT	

_ot 9.	Refrigeration and Air-Co	nditioning Servicing NC III		
1	Variable Refrigerant Frequency Air Conditioning Unit with Central Controller	8 HP capacity outdoor unit with 4 fan coil unit (FCU) 1 HP wall mounted 2 HP ceiling suspended cassette type (FCU) 220 volts 1 phase 60 hz	2	unit
2	Inverter Type Air Conditioning Unit (Cassette)	PACU cassette type A/C unit; 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3.0 tons	4	unit
3	Inverter Type Air Conditioning Unit (Ceiling Concealed)	Package type A/C unit, ceiling concealed ducted inverter split type, 5.0 kw, 220 v0lts, 60 hz, 2 hp capacity	4	unit
4	Inverter Type Air Conditioning Unit (Floor Mounted)	Split type A/C unit , floor mounted, 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3 TR	4	unit
5	Inverter Type Air Conditioning Unit (Wall Mounted)	Split type A/C unit, wall mounted, 220 volts, 60 hz, 1 phase, cooling capacity, 10 kw, 3 hp capacity	4	unit
6	Oxy-acetylene with Complete Accessories	With complete accessories, cuts up to 15 mm, welds up to 5 mm with torch handle, equal pressure cutting attachment for acetylene and alternative fuels, mixer, 3 welding tips, cutting tips, single stage cylinder regulator for oxygen, safety goggle, igniter and flints, 10 way tank wrench, 6 m twin hose, brass handle with large flow capacity for heavy duty applications	4	unit
7	Welding Helmet (Auto-Darkening)	Auto darkening lense, wide vision, variable shade from DIN 9-13	5	рс
8	Portable Arc Welding Machine	Inverter type portable welding machine, ground clamp, power cables and welding cables, input power 220 V, output current: 200 Ampere	4	unit
9	Leak Detector	Intended for 404A, 410A, digital type heated diode sensor with mechanical pump, sensitivity level 2, sensitivity per year 0.25 ounce/ year, CFC's, HCHF and HFC, sensor 2D alkaline batteries spare, filter and hard plastic carrying case, unit cases heated diode sensor technology automatically compensate for changing background, contamination	4	unit
10	Anemometer SE	Digital type, measuring the current wind speed with minimum and average values, temperature display and percieve temperature (wind chill), wind strength can be set as meter, m/s, km/h, mph, knots	5	unit
11	Refrigerant Recovery Machine (Hydrocarbons)	220-240 VAC, 60hz, with recovery tank of 50 lbs capacity, direct liquid of 3.03 lbs per minute, direct vapor of 0.03 lb per minute, push/pull of 12.22 lbs per minute	4	unit
12	Vacuum Pump	Two-stage, 220 VAC, 60 hz, single phase, 5.0 CFM capacity	4	unit
13	Portable High Pressure Washer	220 volts, 60 hz, 1 hp capacity, single phase	5	unit
14	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	4	unit
15	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single	4	unit



Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Balicuatro College of Arts and Trades – Allen, Northern Samar NO. ITEM AGENCY SPECS QTY UNIT

		phase		
Lot 14	4. Information and Com	munication Technology		
NO.	ITEM	AGENCY SPECS	QTY	UNIT
1	Laptop	i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4 512GB SSD ·4GB Dedicated Video Card 15.6" Display Mouse Wired and wireless Ethernet connection At least two (2) USB Port Windows 10 or latest OS Microsoft Office (Full Installation) Educational License	13	unit
2	Inkjet Printer	With Print, Scan, Copy, Fax features Tank type ink system Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black) Can scan documents over network environment Photo Quality WiFi Connectivity	3	unit
3	Wireless Router	WAN and 4 LAN ports 802.11g, 802.11n USB port for shared printing/storage English firmware/ User interface Supports home and cloud application	3	unit
4	Smart TV	65 inch High Definition (3,840 × 2,160) SMART Features Ethernet and Wireless Connectivity USB, HDMI and A/V port with wall mount provision Multi-system compatible	1	unit
5	Tablet	128 GB Storage WiFi With installed MS Office Application	4	unit
6	Network Attached Storage	8 TB At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface With file and media server Windows and MAC Compatible	1	unit
7	Multimedia Projector	Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours	1	unit



Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Balicuatro College of Arts and Trades – Allen, Northern Samar NO. ITEM AGENCY SPECS QTY UNIT

USB port: Type Bx1 Interface: wired/ wireless 8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Dispiay Resolution: Up to 1080p; Audio Input I Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.284; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch-90" to 30" Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh IIPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E HDMI, display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F-Tablets and smart phones				
8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Resolution:			*	
Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Resolution: 1080p; Recording Moles: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB Installed (expandable to 4TB); Network Interface: 1 X R.145 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP87 Operating Temperature: 4*F - 122*F Body Construction: Aluminum, Bullet Style Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90* to 30* Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 1.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.3 mi (5 km) Battery: 6000 mAh IiPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 linch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones		Interface: wired/ wireless		
Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones	CCTV System	Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F	1	unit
	Drone	Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones Voltage: 15.2 V	1	unit
			Interface: wired/ wireless 8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch-90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh IiPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones	Interface: wired/ wireless

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		of Training Tools and Equipment for the Higher Lev DAC Qualification of the 23 CenTExs	- 	
	Balicuatro C	ollege of Arts and Trades - Allen, Northern Samar		
NO.	ITEM	AGENCY SPECS	QTY	UNIT
		Vision System: Forward Vision System, Backward Vision System, Downward Vision System		
		Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground		
		Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M		
		Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m		
		ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)		
		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720		
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure		
		Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)		A STATE OF THE STA
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required		
		Charger Voltage: 17.4 V		
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC	1	unit
_ot 1	5. Science Lab (Chemis	try and Physics)		
NO.	ITEM	AGENCY SPECS	QTY	UNI
1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity	10	рс
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity Glass material	5	рс
3	Test Tubes	Large 15 ml capacity	12	рс
A	Thermometer	Lab Thormameter, Red Alachel 20 to 110° C. Total	7	200

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Thermometer

Lab Thermometer: Red Alcohol, 20 to 110° C, Total

Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Balicuatro College of Arts and Trades – Allen, Northern Samar NO. ITEM AGENCY SPECS QTY UNIT

		Immersion		
		Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C		
		With permanently fused markings; packed in protective sleeving		
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment. Calibrated in newtons	10	set
15	Vernier Caliper	Science ware Digi-MAX Double scales Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value	10	set

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs

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Balicuatro College of Arts and Trades – Allen, Northern Samar ITEM AGENCY SPECS QTY UNIT

			T	
		Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions		
		Molded in rigid plastic, will not scratch like metal		
		Non-conducting, corrosion resistant, and lightweight Analog		
16	Ammeters	Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing	1	unit
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	7	pc
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set

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	Procurement of Training Tools and Equipment for the Higher Level					
	DAC Qualification of the 23 CenTExs					
	Kabasalan Institute of Technology – F. L. Peña, Kabasalan, Zamboanga Sibugay					
NO.	ITEM	AGENCY SPECS	QTY	UNIT		

Lot 7.	CNC Lathe and Milling I	Machine Operation NC III		
1	CNC Milling Machine	General Specifications: CNC Vertical Milling Machine Table Size: Length 750 mm - 1000 mm; Width 350 - 550 mm, Table Load Capacity: 500-1400 kg, Travel X-axis: mm - 850 mm, Y - axis: 400 mm - 600 mm, Z - axis: 500 mm - 600 mm, Maximum Spindle speed: 8,000 - 12,000 rpm; Direct Drive, Spindle Taper: BT 40, Tool Storage Capacity: 20 tools - 30 tools only, Electricals: 220 volts / 3 phase / 60 Hz, Spindle Motor Power: 20 hp - 30 hp, Max Rapids on (x, y, z): 25.4 m/ min - 42 m/ min; Servomotors on all axes, 4th Axes Drive and wiring, Coolant system, Max tool diameter: 80 - 95 mm, bearing lubrication: air / oil/ grease injection Important features Included: • 3 Units External CNC CONTROLLER SIMULATOR (Stand-alone exact replica (duplicate) of the CNC Controller of the machine for off-machine training on CNC programming, operation and simulation) • 4th Axis Rotary Table (Can be mounted horizontal / vertical, Worktable diameter: 160mm -350mm diameter, Accuracy: ±15sec, Servo Motor, complete with accessories) Machine Accuracy & Control Specifications • Control type - Dialog, Conversational/ Intuitive Programming Sys. /EIA/ ISO PROGRAMMING • Working Memory - 2 mb up to 1 gb Minimum features and accessories included: • Fully enclosed machining center • USB port • ethernet interface • Automatic tool length measuring device/ Touch probe • Automatic voltage regulator 30KVA, 3 Phase, 220V • Air Compressor • Specified machining tool list: • 1 pc Drill Chuck • 1 pc Drill Chuck arbor BT 40 • 5 pcs Quick Change Milling (Collet) Chuck • 10 pc pull studs • 15 pc Collets (3-25 mm) • 1 pc Face mill arbor • 20 pcs Carbide Inserts • 1 set HSS End mills • 1 set HSS End mills • 1 set HSS End mills • 1 pc mill vise • Coolant (pail) - 1 pc. • With operations/ maintenance manual in English Language	1	unit

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs

Kabasalan Institute of Technology – F. L. Peña, Kabasalan, Zamboanga Sibugay

NO ITEM AGENCY SPECS QTY UNIT

NO.	ITEM	AGENCY SPECS	QTY	UNIT
		 1 year warranty for spare parts and 2 years in support service Includes Machine Commissioning and Training 		
2	Lathe Machine (Conventional)	General Specifications: Horizontal Lathe Capacity • Max swing over bed: 380 mm - 560 mm • Max swing over gap: 600 mm - 780 mm • Max swing over cross-slide: 200 mm - 380 mm • Distance between centers: 1000 mm • Bed width: 220 mm - 350 mm • Cross slide travel: 230 mm - 300 mm Main Spindle • Spindle bore: Ф50 mm - Ф80 mm • Max Spindle speed: more than 1600 rpm Tailstock • Tailstock spindle taper: MT 3, 4 or 5 Threading • Metric pitch threads: 0.2-14 mm/ pitch • Inch pitch threads: 2-75 TPI Feeding Range • Range of longitudinal feeds: 0.04-1 mm/rev • Range of cross feeds: 0.02-1.25 mm /rev Motor • Power Supply: 220 volts 60hz • Phase: 3 phase • Main spindle motor: 5 - 10 hp • Coolant pump motor: 1/8 hp Accessories included: • 1 pc - 3 Jaw chuck, 4 Jaw chuck , Face plate • 1 pc - live center , dead center • 1 pc - Steady rest, follower rest • 1 set - lathe dog (straight and bend tail) • 1 set tool holder (left hand, right hand, neutral & threading tool) • 1 pc - drill chuck with arbor • quick change tool post • with Operations/ maintenance manual in English • With Digital Read Out • with sleeve for MT 4 and MT 5 Machines • 1 year warranty for spare parts and 2 years in support service • Includes Machine Commissioning and Training	1	unit
3	Milling Machine (Conventional)	General Specifications: Vertical Turret Type Milling Machine • Table Size: Length 1270 mm x Width 254 mm • Longitudinal Travel (x): 800 mm - 950 mm • Cross Travel (y): 305 mm - 410 mm	1	unit

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs							
	Kabasalan Institute	of Technology – F. L. Peña, Kabasalan, Zamboanga	Sibuga	ıv				
NO.	ITEM	AGENCY SPECS	QTY	UNIT				
		V-15-15						
		 Vertical Travel (Knee) (z): 305 mm - 410 mm Max work piece weight: 300 - 400 kg 						
		• Spindle Motor: 2 hp to 3 hp						
		Maximum Spindle Speed: 2500 rpm-5500 rpm						
		• Electricals: 220 V/ 3 phase/ 60 Hz						
		Accessories included:						
		• 1 set - Dividing Head gear ratio 40:1 w/ sets of	'					
		gear, footstock, 3 indexing plates, sector arm						
		• 2 sets of module cutter (mod 1.5, 2.0, 2.5)						
		Spindle Arbor/ Milling Arbor						
		• with operations/ maintenance manual in English						
		Language						
		 1 year warranty for spare parts and 2 years in support service 						
		Includes Machine Commissioning and Training						
		motado macinio de minosolo migrana maning						
Lot 1	4. Information and Cor	mmunication Technology						
		i7 (2.5GHZ- Minimum Speed)						
		8Gb RAM DDR4						
		512GB SSD						
		·4GB Dedicated Video Card						
1	Laptop	15.6" Display Mouse	13	unit				
'	Laptop	Wired and wireless Ethernet connection	13	uiiit				
		At least two (2) USB Port						
		Windows 10 or latest OS						
		Microsoft Office (Full Installation)						
		Educational License						
		With Print, Scan, Copy, Fax features						
		Tank type ink system						
		Supports A4 and Legal Paper sizes						
2	Inkjet Printer	Approximately 15 page per minute (Black) Can scan documents over network environment	3	unit				
		Can scan documents over network environment						
		Photo Quality						
		WiFi Connectivity						
		1 WAN and 4 LAN ports						
•	Mr. D. C.	802.11g, 802.11n						
3	Wireless Router	USB port for shared printing/storage	3	unit				
		English firmware/ User interface Supports home and cloud application						
···		65 inch	+					
		High Definition (3,840 × 2,160)						
		SMART Features	1					
4	Smart TV	Ethernet and Wireless Connectivity	1	unit				
		USB, HDMI and A/V port with wall mount						
		provision						
	<u> </u>	Multi-system compatible		<u> </u>				
5	Tablet	128 GB Storage WiFi	4	unit				
3	I abici	With installed MS Office Application	4	urni				
6	Network Attached	8 TB	1	unit				
	. 151.1511 / 11.401104	, - · -	, .	J				



Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Kabasalan Institute of Technology – F. L. Peña, Kabasalan, Zamboanga Sibugay

NO.

AGENCY SPECS

UNIT

Storage At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface With file and media server Windows and MAC Compatible Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters 7 1 Multimedia Projector unit Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless 8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; 8 CCTV System 1 unit Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90: Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° 9 Drone 1 unit Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz

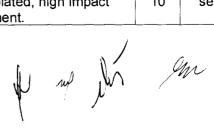
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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs						
		Technology - F. L. Peña, Kabasalan, Zamboanga	Sibuga	īV			
NO.	ITEM	AGENCY SPECS	QTY	UNIT			
		(Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km)					
		Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones					
		Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System, Downward Vision System					
		Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground					
		Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M					
	; ; ;	Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m					
		ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)					
		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720					
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure					
		Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)					
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required					
		Charger Voltage: 17.4 V					
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video	1	unit			

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Kabasalan Institute of Technology – F. L. Peña, Kabasalan, Zamboanga Sibugay AGENCY SPECS UNIT NO. ITEM

		recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC		
ot 1	5. Science Lab (Chemis	stry and Physics)		
1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity	10	рс
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс
3	Test Tubes	Glass material Large 15 ml capacity	12	рс
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	рс
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment.	10	set



Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs

Kabasalan Institute of Technology – F. L. Peña, Kabasalan, Zamboanga Sibugay **AGENCY SPECS** UNIT **ITEM** NO.

		Calibrated in newtons		i
15	Vernier Caliper	Science ware Digi-MAX Double scales Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight	10	set
16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing	1	unit
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	7	рс
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs						
	Kabasalan Institute	of Technology – F. L. Peña, Kabasalan, Zamboanga	ı Sibuga	ıy			
NO.	NO. ITEM AGENCY SPECS						
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс			
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set			

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	Procurement of Training Tools and Equipment for the Higher Level				
	DAC Qualification of the 23 CenTExs				
	Cagayan de Oro (Bugo	School of Arts and Trades – Bugo, Cagayan de	Oro Cit	ty	
NO.	ITEM	AGENCY SPECS	QTY	UNIT	

Lot 4.	Automotive Servicing			
1	Parts Washer	Drum: Inside dimensions - 7" H X 28" W X 22" D Fluid Requirements: 10 gallons Input: 120 V/ 220VAC (60 Hz) Pump Volume: 210 GPH Output Pressure: 50 PSI Dimensions: 35" X 31" X 23" Open Height: 60"	2	unit
2	Tire Changer	Inside clamping: 13 - 26" Outside clamping: 11 - 24" Voltage: 220 V Motor Power: 0.75 kw/ 1.1 kw HP: 1 Operating Pressure: 90 psi	2	unit
3	Roller Cab/ Trolley Tool Set	5 Drawers Roller Cab with the following tool set: 1 set Screwdriver L-shape Wrench 1 set Double-open-end wrench 1 set 45 deg. Double wrench set 1 set Ratcheting combination wrench set 1 set Adjustable wrench set 1 set Standard pliers set 1 set Circlip plier set 1 set Impact socket set 1 set 3/8" Square drive socket set 1 set 1/4" Square drive socket set 1 set 1/2" Square drive socket set	2	unit
4	Lifter Wheel Aligner	Design: Scissor Lifting Capacity: 3500 - 5000 kg Lifting Height: 1700mm Motor: 220V/ 50 Hz	1	unit
5	Electronic Battery Tester	Battery Nominal Voltage: 12 V CCA: 125 A to 1400 A SAE/EN: 200 A to 900 A DIN/ IEC: 120 to 550 3-4 digit LED display	2	unit
6	Car Wheel Balancer	Power supply: 220 V/ 380 V Measuring time: 8-20 sec. Max. rim diameter: 10" - 24" Balancing speed: 42 - 220 rpm Max. rim width: 1.5" - 20" Max. wheel weight: 65 kg Balancing accuracy: ± 5g	1	unit
7	Global Diagnostic System (GDS) Professional Scanner	CPU: Dual Core 1 GHz Battery: 3000mh, rechargeable Extension Memory Card: 32 G Memory: 512 MB LCD: 7.0 inch LCD Resolution: 1024 x 600 Screen: capacitive touch screen Cameras: 2 mega rear and 0.3 mega front	2	unit

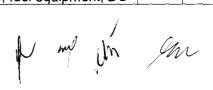


Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Cagayan de Oro (Bugo) School of Arts and Trades – Bugo, Cagayan de Oro City NO. ITEM AGENCY SPECS QTY UNIT

8	Front Wheel Alignment Trainer	Original vehicle steering wheel Camber caster steering axis inclination A set of two wheels- turntable with gauges allows for measurement of the degree of turn on both sides of zero (for calculation of toe-in & toe-out) Ball joint inspection gauge for checking upper and lower ball joint condition, out of round tires and wheel run out. Technical Description: 1. The trainer consists of an original front end unit from a typical passenger vehicle. 2. It has been modified for quick adjustment of all alignment and steering geometry points. 3. The unit is mounted on a special stand which facilitates alignment procedures and utilization of test equipment and accessories. The trainer comes with two wheel rims with tires. Additional recommended accessories or options: Original vehicle steering wheel Camber/ caster steering axis inclination gauge A set of two wheel turntables with gauges allows for measuring of the degree of turn on both sides of zero for calculation of toe-in and toe-out Ball joint inspection gauge for checking upper and lower ball joint condition, out of round tires and wheel run out The following topics are covered in the instruction program: General theory on suspension and steering system including different types and geometry principles. Pre-alignment check procedures: tire pressure and wear, front wheel bearing play and adjustment, ball joint play inspection, shock absorber wear, steering gear looseness Caster: determination, adjustment and correction Camber: determination, adjustment and correction (positive and negative)	1	unit
9	Anti-Lock Braking System with Traction Control System (TCS)	The major components included are: Four rotating wheels with wheel sensors, with digital speed display for each wheel (4 digital displays);	1	unit



	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs					
	Cagayan de Oro (Bugo) School of Arts and Trades – Bugo, Cagayan de	Oro Ci	ty		
NO.	ITEM	AGENCY SPECS	QTY	UNIT		
:		4 variable speed electrical drive systems for each wheel to control the individual speed of each wheel,		:		
		master brake cylinder with pedal handle; ABS hydraulic actuator (modulator) unit which is controlled by the on-board computer system (ECU);				
		Five brake line pressure gauges to show the pressure differentials from the master brake cylinder to the individual wheels;				
		Brake Master Cylinder with Vacuum assists boosts mechanism and brake pedal assembly;				
		The front of the trainer features precise schematic color graphic illustrations that clearly explain the operation of the entire ABS and braking system;				
		A control panel is provided with an on/ off power switch, power system light (POWER ON), ABS warning light (indicated problems) and an ABS operational light (ABS ON). Also has Volt and Ampere meters to measure the DC input power and a brake light to show the operation of the braking system just as on the vehicle;				
		Special Road Conditions and Performance Display Panel;				
		Optional Electronic Fault insertion panel and Electrical Test Point;				
		The trainer comes complete with a training course on ABS operation and servicing including student job sheets and a technical manual on ABS systems;				
		A series of options to enhance the trainer such as fault insertion systems, power supplies and additional instructional materials, vacuum pump for power brake boost;				
		Power Source: Note that 30A, 12 Volt DC power source is required from the shop to operate the trainer. If none is available an optional 12 VDC power supply can be ordered to provide this correct power Electrical control gasoline engine assembly, auto fault				
10	Half-Cut AUV Engine Management System	Automatic transmission assembly Electrical and electronic devices such as: ECM, TCM, AFS, CKP, CMP, O2 sensor, WTS, control relay and etc.	1	unit		
		Injector, filter, fuel tank, fuel pump, fuel equipment, DC				



Procurement of Training Tools and Equipment for the Higher Level **DAC Qualification of the 23 CenTExs** Cagayan de Oro (Bugo) School of Arts and Trades - Bugo, Cagayan de Oro City NO. ITEM AGENCY SPECS QTY UNIT 12 V/ 60 A, battery 12 volts Ignition coil built -in, spark plug, high voltage resistant cables Cooling system: radiator, overflow tank Exhaust system: Catalytic converter, Emission, Silencer Ignition switch with key Anti-vibration dampers and a urethane wheels Control box, fuel tank, accelerator lever Automatic transmission oil pressure gauge for each singular (1.5MPA*83,2.5 MPA*4) Vacuum pressure gauge (1 MPA) Fuel pressure gauge Battery voltage gauge (30 V) Note Includes: training manual/ module The trainer consist of the following components: Sectioned steering wheel with deployable and reusable airbag Pressure regulator with air filter, solenoid valve and compressed air connection Airbag system circuit diagram with connection and test points Set of two mm test connection leads Inflator unit Rear cable unit SRS control unit 11 Airbag System Trainer Airbag simulator with graphic and LED display 1 unit Crash switch simulation system Dash sensor unit Fuse Power indicator light Ignition switch Technical Parameters: The steering unit with a typical restraint unit. Additional components and controls are mounted on the board to complete the system such as the impact crash sensor and controls. The airbag operation is demonstrated and realistic faults are also introduced to show typical problems in the units. A typical electronic circuit for the SRS system is

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incorporated into the trainer. This can be used also for

Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs					
(Cagayan de Oro (Bugo	o) School of Arts and Trades – Bugo, Cagayan de (Oro Ci	ty	
NO.	ITEM	AGENCY SPECS	QTY	UNIT	
		realistic fault simulation to show typical problem in the units. After the circuit is connected, the airbag operation is both simulated via LED graphic display that shows the detonation and deployment of the air bag system in a simulated crash situation. And also the airbag deploys, synchronized with the LED graphic display unit, through the use of compressed air and a pressure regulator. The trainer comes with a comprehensive manual covering the operation of the trainer.			
12	Gas Tester	The pump consists of a diaphragm with one way valve and thus the pump will only be heard to click when connected to the exhaust CO Function Specification: - Calibrated range: 0-10% CO - (indicates un-calibrated to 20% C) - Accuracy: +/-0.5% CO typical - (throughout the indicated range 0.5% CO to 6.5% CO) Kit Contents: - Gas tester instrument including collector box and pulse pump/ water trap assembly - Metal exhaust probe with retaining springs - Flexible plastic pipes (3 lengths) - Instruction handbooks	2	unit	
13	Recovery Machine	Compact and Lightweight 40% smaller footprint, easy to carry, weighing in at 18 lbs Oil-less compressor Capable of recovering both liquid and vapour Handles almost all refrigerants Works with all common CFC, HFC, HCFC Refrigerants including R-410A High efficiency cross flow design Lay-out of fan and condenser is maximized for shorter cycle times High pressure safety shut-off switch Automatically shuts off machine if pressure rises above PSI Easy to operate Rugged case Easy to read gauges, comfortable handle and simple 2 valve controls	2	unit	

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Cagayan de Oro (Bugo) School of Arts and Trades – Bugo, Cagayan de Oro City

NO. ITEM AGENCY SPECS QTY UNIT

NO.	I I EIVI	AGENCT SPECS	QIT	UNII
		IEC connector and power cord		
14	Brake Fluid Exchanger	Remove and replace fluid from most types and models	2	unit
		of vehicles' brake system. Also removes trapped air		umt
Lot 14	1. Information and Com			
		i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4		
	!	512GB SSD		
		·4GB Dedicated Video Card		
1		15.6" Display		
	Laptop	Mouse	13	unit
	!	Wired and wireless Ethernet connection		
		At least two (2) USB Port Windows 10 or latest OS		
		Microsoft Office (Full Installation)		
		Educational License		
		With Print, Scan, Copy, Fax features		
		Tank type ink system		
		Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black)		
2	Inkjet Printer	Can scan documents over network environment	3	unit
	i			
		Photo Quality		
		WiFi Connectivity		-
		1 WAN and 4 LAN ports 802.11g, 802.11n	i	
3	Wireless Router	USB port for shared printing/storage	3	unit
•		English firmware/ User interface		
		Supports home and cloud application		
		65 inch		
		High Definition (3,840 × 2,160) SMART Features		
4	Smart TV	Ethernet and Wireless Connectivity	1	unit
		USB, HDMI and A/V port with wall mount		
		provision		
		Multi-system compatible 128 GB Storage		
5	Tablet	WiFi	4	unit
Ū		With installed MS Office Application	•	
		8 TB		
		At least 2 Hard disk bay		
6	Network Attached	2 LAN Port (Gigabit Interface)	1	unit
O	Storage	USB port English firmware/ User interface	1	unit
		With file and media server		
		Windows and MAC Compatible		
		Decidation available I CD/ DI Diship to sharely as		
		Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction		
7	Multimedia Projector	Projected image size: 30 to 300 inches	1	unit
		Distance: 1 to 13.5 meters		
		Brightness: 5,000 - 6,000 lumens	<u>L</u>	

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Cagayan de Oro (Bugo) School of Arts and Trades – Bugo, Cagayan de Oro City

NO. ITEM AGENCY SPECS QTY UNIT

NO.	ITEM	AGENCY SPECS	QTY	UNIT
		Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless		
8	CCTV System	8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style	1	unit
9	Drone	Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones	1	unit

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs						
	Cagayan de Oro (Bug	o) School of Arts and Trades - Bugo, Cagayan de	Oro Ci	ty		
NO.	ITEM	AGENCY SPECS	QTY	UNIT		
	<u> </u>					
		Voltage: 15.2 V				
	İ	Battery Type: liPo 4S				
		Vision System: Forward Vision System, Backward				
	j	Vision System, Downward Vision System	ļ			
		Valentity Banger (24 mmh (50 kmh) at 6 6 ft (2 m) above				
		Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground				
		Altitude Range: 0 - 33 ft (0 - 10 m)				
		Operating Range: 0 - 33 ft (0 - 10 m)				
		Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m)				
		Camera Sensor: 1" CMOS, Effective pixels: 20M				
		Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format				
		equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m				
		ISO Range: Video 100- 3200 (Auto), 100- 6400				
		(Manual); Photo 100- 3200 (Auto), 100- 12800				
		(Manual)				
		Mechanical Shutter Speed: 8 - 1/ 2000 s				
		Electronic Shutter Speed: 8 - 1/8000 s				
		PIV Image Size: 4096x2160, 3840x2160, 2720x1530,				
		1920x1080, 1280x720				
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure				
		3/3/1/10/14 frames, Auto Exposure				
		Photo: JPEG, DNG (RAW), JPEG + DNG)				
		Video: MP4/ MOV (ÀVC/ H.264; HEVC/ H.265)				
		Supported SD Cards: Micro SD, Max Capacity 128 GB,				
		Write Speed ≥15MB/s, Class 10 or UHS-1 rating required				
		Ohaman				
		Charger				
		Voltage: 17.4 V				
		Camera lens of at least 18 - 55 mm; 24.2MP APS-C				
		CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT				
40	DOLD Comerc	Vari-angle Touchscreen Full HDn 1080p; Video	1	unit		
10	DSLR Camera	recording at 60 fps 45-point All Cross Type Phase;	1	unit		
		Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting				
_		and ISO 25,600 built in wi-fi with NFC				
Lot 1	5. Science Lab (Chemis			Ţ		
1	Graduated Cylinder	Polypropylene (plastic) material	10	рс		
		10 ml capacity Polypropylene (plastic) graduated cylinder				
2	Graduated Cylinder	100 ml capacity	5	рс		
***		Glass material				
3	Test Tubes	Large	12	рс		
		15 ml capacity				

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Cagayan de Oro (Bugo) School of Arts and Trades – Bugo, Cagayan de Oro City NO. ITEM AGENCY SPECS QTY UNIT

		Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion		
4	Thermometer	Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C	7	рс
		With permanently fused markings; packed in protective sleeving		
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment.	10	set
15	Vernier Caliper	Calibrated in newtons Science ware Digi-MAX Double scales Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide	10	set

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Cagayan de Oro (Bugo) School of Arts and Trades – Bugo, Cagayan de Oro City NO. ITEM AGENCY SPECS QTY UNIT

		added value		
		Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight		
16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing	1	unit
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	7	рс
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Camiguin School of Arts and Trades – Lumad Mambajao, Camiguin NO. ITEM AGENCY SPECS QTY UNIT

Lot 12	. Food and Beverages S	ervices NC III		
1	Espresso Machine	Dual- boiler technology and saturated brewing groups, Steam Boiler Capacity: 7 Liters, Coffee Boiler Capacity: 3.4 Liters, Semi-Automatic, Stainless steel boilers and brewing groups, Omni-directional stainless steel steam wands, Solid stainless steel housing and base, Sight glass for water level monitoring of steam boiler, 220 V, 60 Hz	2	unit
2	Coffee Grinder	Wide grinding range, from espresso fine to a coarse drip, Revolutionary pass- through grind mechanism with 28 - 270 grind settings: 25 - 30 stepped macro settings plus a step less micro adjustment range, Convertible grinding forks- grind hands- free directly into a porta filter, or convert to grind into the included bin or your favorite dripper, Time- based grinding with three customizable presets, Power: 220 V, 60 Hz, 290 watts	3	unit
3	Coffee Maker	Dimensions (W x D x H cm): 22 x 26 x 28 cm Removable water reservoir: 1.4 L Pump pressure: 20 Bar Filter holder for ground coffee, pods and capsule Rapid Espresso Cappuccino System: Cup warmer Removable drip tray, 220 V, 60 Hz	5	unit
4	Juicer	1500 watts locked power juicer, 5.34 kg, juice jug capacity: 1.5 liters, pulp collector capacity: 3 liters, 220 V, 60 Hz	4	unit
5	Dinner Plates	10 inches diameter plate, ceramic/ porcelain, white in color, and round in shape	50	рс
6	Appetizer Plate	6 inches diameter; ceramic/ porcelain, white in color and round in shape	50	рс
7	Show/ Service Plates	13 inches diameter, ceramic/ porcelain, white in color and round in shape	50	рс
8	Salad Plates	8 inches diameter, ceramic/ porcelain, white in color and round in shape	50	рс
9	Fish Plates	9 inches diameter, ceramic/ porcelain type, white in color and round in shape	50	рс
10	Dessert Plates	8 inches diameter, ceramic/ porcelain, white in color and round in shape	50	рс
11	Side Plates or Bread Plates	6 inches diameter, ceramic/ porcelain, white in color, and round in shape	50	рс
12	Soup Plate/ Bowl	3 inches deep, ceramic/ porcelain, white in color and round in shape	50	рс
13	Bouillon Cups & Saucers	Ceramic/ porcelain, Cup and Saucer - 5 inches diameter, white in color	50	set
14	Teacups and Saucers	Ceramic/ porcelain; Set of cup and saucer cup - 10 oz capacity; Saucer - 4 cm diameter; white in color	50	set
15	Tea Pots	Stainless steel micromesh filter; 42-ounce tea pot and infuser	10	рс
16	Demitasse Set	Set of cup and saucer with teaspoon; ceramic/ porcelain, 3-1/3 oz cup capacity, 4 inches long tsp, white in color	50	set

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs

Camiguin School of Arts and Trades – Lumad Mambajao, Camiguin

NO.	ITEM	AGENCY SPECS	QTY	UNIT
140.	11 - 141	AGENCY OF EGG	Q I I	ONT
17	Dinner Spoon	Measures 8" L 18/8 stainless steel construction Dishwasher safe	50	рс
18	Dinner Forks	Measures 8" L 18/8 stainless steel construction Dishwasher safe	50	рс
19	Dinner Knives	Measures 9-1/2" L 18/8 stainless steel construction Dishwasher safe	50	рс
20	Salad Forks	Stainless steel Length: 22.5 cm Thickness: 8 mm	50	рс
21	Salad Spoon	Measures: 6-3/4" L 18/8 stainless steel construction Dishwasher safe	50	рс
22	Salad Knives	Stainless steel Stain resistant, dishwasher safe, 5 - 7" long	50	рс
23	Fish Knives	Stainless steel fish knives Length: 22.5 cm Thickness: 8 mm Weight: 86 g	50	рс
24	Fish Forks	Stainless steel fish fork Length: 21.5 cm Thickness: 8 mm Weight: 86 g	50	pc
25	Dessert Spoons	Stainless steel; stain resistant, durable, 4" long	50	рс
26	Dessert Forks	Stainless steel; stain resistant, durable, 6" long	50	рс
27	Cocktail Forks	Stainless steel, stain resistant, durable, 4" long	50	рс
28	Teaspoon	Measures: 6 - 3/4" L 18/8 stainless steel construction Dishwasher safe	50	рс
29	Steak Knives	Stainless steel, stain resistant, durable, 6" long	50	рс
30	Service Forks	Stainless steel, stain resistant, durable, 7" long	20	рс
31	Service Spoons	Stainless steel, stain resistant, durable, 7" long	20	рс
32	Steak Forks	Stainless steel, stain resistant, durable, 6" long	50	рс
33	Oyster Forks	Stainless steel, stain resistant, measure 5 3/8" long	50	рс
34	Butter Knives	Stainless steel, stain resistant, durable, 16 cm	50	рс
35	Red Wine Glasses	Stemmed glass; 12 3/8 oz. capacity, crystal glass	50	рс
36	White Wine Glasses	Stemmed glass, 9 7/8 oz capacity, crystal glass	50	рс
37	Water Goblets	Stemmed glass, 14 3/4 oz capacity, crystal glass	50	рс
38	Champagne Flute	Stemmed glass, 190 ml capacity, crystal glass	50	рс
39	Pilsner Glasses/ Ice Tea Glasses	Crystal glass; Dimension: 8" H x 3" W x 3" D; Capacity: 16 oz	50	рс
40	Wine Decanter	Capacity: 200 ml, Material: High quality Glass, Unique and elegant shape, easy to pour	10	рс
41	Waiter's Friend	Stainless steel, all-in-one corkscrew, bottle opener and foil cutter	5	рс
42	Salt and Pepper Shakers	Stainless Steel Salt and Pepper Grinder	10	рс

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Camiguin School of Arts and Trades – Lumad Mambajao, Camiguin NO. ITEM AGENCY SPECS QTY UNIT

43	Rectangular Trays	Non-slip plastic tray; heavy duty construction for commercial use; rubber liner prevents slipping; stain and odor resistant	10	pc
44	Round (Bar) Trays	Non-slip plastic tray; Heavy duty construction for commercial use; Rubber liner prevents slipping; stain and odor resistant	10	рс
45	Soup Tureen	Microwave and dishwasher safe; white porcelain; covered soup tureen with ladle	10	рс
46	Peppermill	Stainless steel/ wood; 5.5 inch long	10	рс
47	Sauce Ladles	Stainless steel with end hook for hanging; heavy duty; Size: 20 cm x 4 cm	10	рс
48	Cake Servers	Stainless steel; stain resistant, durable, 5 1/2" long	10	рс
49	Ice Buckets with Tongs	Stainless Steel, 3 liters/ 0.8 gallon	10	рс
50	Boning Knives	Stainless Steel; 5 inch long; with black handle	10	рс
51	All-Purpose Knives	Stainless Steel; 8 inch chef knife; thickness: 3.0 mm; knife length: 13.5 inch; blade length: 8 inch	10	рс
52	Chopping Boards	Rubberized/ polyethylene, medium size, white in color	10	рс
53	Non-Stick Round (Crepe) Pan	Aluminum fry pan; non-stick coating fry pan; diameter: 16*4.0 cm - 20*4.0 cm, 26*4.8 cm; shape: round	10	рс
54	Turners (For Non-Stick Pans)	Silicone slot turner of kitchen; size: 342*82*48 mm	10	рс
55	Reach-in Chiller	Heavy duty; two door reach-in, stainless steel body; 500 liters capacity; 220 V/ 60 Hz; single phase	2	unit
56	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	2	unit
57	Water Dispenser (Hot & Cold Dispenser)	Cooling Capacity: 2 L/h Heating Capacity: 5 L/h Cold Water Temperature: 5 - 10°C Hot Water Temperature: 85 - 95°C Cooling Power: 90 W Heating Power: 550 W Compressor brand: Asbeila S30G Water Faucet Connection: Fixed Tank Material: Hot & Cold Tank Material Hot & Cold Tank Structure: Welding or belt Left & Right Side Panel Thickness: 0.5 mm Inner Silicon tube Level: Food Grade 220 V 60 Hz	5	unit
58	Stove with Oven	Heavy duty; four burner gas stove with oven; cast iron top plate; stainless steel material; BTU per hour: 15,000 - 64,000	5	unit
59	Washing Machine	Top loaded, 10 kgs, 220 volts, 60 Hz, single phase, spin dry	3	unit
60	Mop Bucket with Wringer	Plastic, 32 liters capacity	5	unit
61	Ice Crusher	220 V/ 300 watts/ 60 Hz, scrapping block ice into flake ice, micro switch, container volume: 1000 ml, 304 stainless steel blade	4	unit
62	Stand Mixer	3.5 liter capacity mixer, 220 V/ 700 watts, 4 speed electronic pulse, stainless steel basket	4	unit

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
		ol of Arts and Trades – Lumad Mambajao, Camigui	n					
NO.	ITEM	AGENCY SPECS	QTY	UNIT				
140.	(1 6)(1	ACENOT OF EOU	٠	0.111				
		140 watts mixer, 6 speed operation, free standing						
63	Hand Mixer	base, 220 V, 60 Hz	5	unit				
64	Food Processor	Heavy duty, 5 liters, stainless steel bowl, 220 V/ 60 Hz, 1 hp	3	unit				
65	Steam Iron	Ceramic sole plate, output: 35 g/min, steam boost: 100 g, 2100 watts, water tank capacity: 270 ml, 220 V, 60 Hz	5	unit				
66	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase	2	unit				
67	Dishwashing Machine	Hood type 220 VAC/ 1 phase 800 - 1600 plates capacity per hour includes tray/ racks	2	unit				
Lot 14	1. Information and Comm			,				
1	Laptop	i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4 512GB SSD ·4GB Dedicated Video Card 15.6" Display Mouse Wired and wireless Ethernet connection At least two (2) USB Port Windows 10 or latest OS Microsoft Office (Full Installation) Educational License	13	unit				
2	Inkjet Printer	With Print, Scan, Copy, Fax features Tank type ink system Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black) Can scan documents over network environment Photo Quality WiFi Connectivity	3	unit				
3	Wireless Router	WAN and 4 LAN ports 802.11g, 802.11n USB port for shared printing/storage English firmware/ User interface Supports home and cloud application	3	unit				
4	Smart TV	65 inch High Definition (3,840 × 2,160) SMART Features Ethernet and Wireless Connectivity USB, HDMI and A/V port with wall mount provision Multi-system compatible	1	unit				
5	Tablet	128 GB Storage WiFi With installed MS Office Application	4	unit				
6	Network Attached Storage	8 TB At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port	1	unit				

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Camiguin School of Arts and Trades – Lumad Mambajao, Camiguin

NO. ITEM AGENCY SPECS QTY UNIT

		English firmware/ User interface With file and media server Windows and MAC Compatible		
7	Multimedia Projector	Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless	1	unit
8	CCTV System	8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style	1	unit
9	Drone	Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC	1	unit

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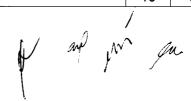
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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs						
	Camiguin Sch	nool of Arts and Trades – Lumad Mambajao, Camigu	in				
NO.	ITEM	AGENCY SPECS	QTY	UNIT			
		4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones					
		Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System, Downward Vision System	,				
i		Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground					
	j	Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M					
		Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m					
		ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)					
		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720					
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure					
		Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)					
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required					
		Charger Voltage: 17.4 V					
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC	1	unit			

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Camiguin School of Arts and Trades – Lumad Mambajao, Camiguin NO. ITEM AGENCY SPECS QTY UNIT

_ot 1	5. Science Lab (Chemis	stry and Physics)		
1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity	10	рс
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс
3	Test Tubes	Glass material Large 15 ml capacity	12	рс
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	pc
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment. Calibrated in newtons	10	set
15	Vernier Caliper	Science ware	10	set



Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Camiguin School of Arts and Trades – Lumad Mambajao, Camiguin NO. ITEM AGENCY SPECS QTY UNIT

		Digi-MAX Double scales Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value Upper scale: 150 mm with 0.1 mm subdivisions		
		Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight		
16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing	1	unit
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	7	рс
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave	1	set

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	Procurement of	Training Tools and Equipment for the Higher Leve	el	
	D	AC Qualification of the 23 CenTExs		
	Camiguin Schoo	l of Arts and Trades – Lumad Mambajao, Camigui	n	
NO.	ITEM	AGENCY SPECS	QTY	UNIT

		mirror fisica for Student's Optics Physics Experiment		
Lot 17	7. Air Conditioning Unit			
NO.	ITEM	AGENCY SPECS	QTY	UNIT
1	Air Conditioning Unit	Inverter type air conditioning unit Split type AC unit, floor mounted, 4 hp, 220 volts/ 60 Hz/ 3 phase, cooling capacity: 10 kw	1	unit

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	Procurement of	Training Tools and Equipment for the Higher Level		
	D	AC Qualification of the 23 CenTExs		-
	RTC/KorF	Phil-Davao – Buhisan, Tibungco, Davao City		
NO.	ITEM	AGENCY SPECS QT	Υ	UNIT

Lot 2.	. Agricultural Mechanizat	ion		
1	Mechanical Dryer Recirculating Type	Capacity (Kg): 6.000 to 10,000 Loading Rate: 25 - 75 min Unloading Rate: 15 - 75 min Drying Rate: At least 0.5% - 3% per hour	1	unit
2	Walker Behind Vibrator Roller Compactor	Double drum Operating Weight 550 - 800 kgs Engine: Diesel or Gasoline Engine at 6.0 to 18 hp Travel Speed: 2 km/hr - 7.5 km/hr. Centrifugal Force: 15 KN to 25 KN.	1	unit
3	Rice Combine Harvester	At least 70 Horse Power Diesel Engine; Speed harvesting at 1.85 meters/second 2.00 to 3.00 meters cutting width	1	unit
4	Agricultural/ Farm Tractor Four Wheel Drive (90 -120 Hp) with Three (3) Point Hitch Linkage	Engine Power: 90 -120 hp with Rated Engine Speed of at least 2100 Rev/Min Number of Engine Cylinder: 4 - 6	1	unit
5	Rotavator/ Rotary Tiller - Four (4) Wheel Tractor Mounted	Mounted within 50 - 100 hp Agricultural/ Farm Tractor Working Width of 2000 mm and at least 44 blades working at 2100 rpm engine speed	1	unit
6	Four Bottoms Disc Plough, Four (4) Wheel Drive Tractor Mounted	Mounted to the Agricultural Tractor Power with 60 to 120 hp Tractor Working Width 1000 - 1600 mm Number of Disk: 4 Disk Diameter: 500 - 700 mm	1	unit
7	Engine Operated Chainsaw	Engine: Gasoline type Power Output: at least 5 hp (3.7 kw/ 4.8 bhp) Bar Length at least 20 inches	1	unit
Lot 1	4. Information and Comp	<u> </u>		
1	Laptop	i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4 512GB SSD 4GB Dedicated Video Card 15.6" Display Mouse Wired and wireless Ethernet connection At least two (2) USB Port Windows 10 or latest OS Microsoft Office (Full Installation) Educational License	13	unit
2	Inkjet Printer	With Print, Scan, Copy, Fax features Tank type ink system Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black) Can scan documents over network environment Photo Quality WiFi Connectivity	3	unit
3	Wireless Router	1 WAN and 4 LAN ports 802.11g, 802.11n	3	unit



Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs RTC/KorPhil-Davao – Buhisan, Tibungco, Davao City NO. ITEM AGENCY SPECS QTY UNIT

		USB port for shared printing/storage English firmware/ User interface Supports home and cloud application		
4	Smart TV	65 inch High Definition (3,840 × 2,160) SMART Features Ethernet and Wireless Connectivity USB, HDMI and A/V port with wall mount provision Multi-system compatible	1	unit
5	Tablet	128 GB Storage WiFi With installed MS Office Application	4	unit
6	Network Attached Storage	8 TB At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface With file and media server Windows and MAC Compatible	1	unit
7	Multimedia Projector	Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless	1	unit
8	CCTV System	8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67	1	unit

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	Procuremen	t of Training Tools and Equipment for the Higher Lev DAC Qualification of the 23 CenTExs	el	
	RTC/I	KorPhil-Davao – Buhisan, Tibungco, Davao City		
NO.	ITEM	AGENCY SPECS	QTY	UNIT
		Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style		
		Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal		
		Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller		
		Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km)		
		Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones		
9	Drone	Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System, Downward Vision System	1	unit
		Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground		
		Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M		
		Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m	į	
		ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)		
		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720		
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure		

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs					
	RTC/Ko	orPhil-Davao – Buhisan, Tibungco, Davao City	_			
NO.	ITEM	AGENCY SPECS	QTY	UNIT		
			1	I		
		Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)				
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required				
		Charger Voltage: 17.4 V				
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC	1	unit		
Lot 1	5. Science Lab (Chemis	try and Physics)				
1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity	10	рс		
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс		
3	Test Tubes	Glass material Large 15 ml capacity	12	рс		
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	рс		
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс		
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс		
7	Beaker	Durable glass material 250 m Borosilicate	5	рс		
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс		
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс		
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim	3	рс		

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs RTC/KorPhil-Davao – Buhisan, Tibungco, Davao City NO. ITEM AGENCY SPECS QTY UNIT

		T		
		Top diameter: 4 inch (100 mm)		
		Stem length: 4 inch (100 mm)		
		Stem diameter: 0.35 inch (8 mm)		
		Strong borosilicate glass design		
11	Petri Dish	Bottom dish: 60 x 15 mm (2.36 x 0.59 inch)	4	рс
		Cover: 65 mm (2.5 inch)		
12	Watch Glass	100 mm	5	рс
· -		Selected quality glass, polished ground edges		
	!	Porcelain crucible type	_	
13	Evaporating Dish	Hemispherical shape	5	рс
		75 ml capacity		
		Newton's Spring Scale - 10N x 0.5N		
		Made from anodized metal, richly plated, high impact		
14	Spring Balance	polystyrene body with zero adjustment.	10	set
		Calibrated in newtons		
		Science ware		
		Digi-MAX		
		Double scales		
		Polymeric plastic		
		150 mm scale with 0.1 mm subdivisions		
		6 inch scale with 0.005 inch subdivisions		
45	Varian Calinan	Length: 9 inch (23 cm)	40	
15	Vernier Caliper	Parallel jaws are 1.55 inch (40 mm) deep	10	set
		Inside jaws and round plastic rod depth gauge provide		
		added value		
		Upper scale: 150 mm with 0.1 mm subdivisions		
		Lower scale: 6 inch with 0.005 inch subdivisions		
		Molded in rigid plastic, will not scratch like metal		
		Non-conducting, corrosion resistant, and lightweight		
		Analog		
		Tabletop micro ammeter perfect for physics classroom	_	
16	Ammeters	demonstrations or experiments in electricity and	5	set
		electronics laboratories		
		Feature-packed entry-level biological microscope		
		10x eyepiece and 4x, 10x, and 40x objective lenses		
		combine to provide powers of 40x, 100x, and 400x	ļ	
		Fully coated glass optics		
17	Piological Microscopo	All-metal body with monocular head	1	unit
17	Biological Microscope	50 mm (2") mirror provides illumination to make details	•	unit
		of specimen slides easier to see		
		Basic condenser concentrates light onto the specimen		
	ļ			
		Adjustable arm (0° to 60°) for comfortable viewing		
		Lab Thermometer: Red Alcohol, 20 to 150° C, Total		
		Immersion		
18	Thermometer	Children Crade Thormanator Dad Machal White Basks	7	рс
		Student Grade Thermometer: Red Alcohol, White Back;		
		Length: 300 mm; Immersion: Total	1	
		Range: -20 to 150°C; Divisions: 1C	L	

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	Procurement of	Training Tools and Equipment for the High	ner Level	
	D.	AC Qualification of the 23 CenTExs		
	RTC/KorF	Phil-Davao – Buhisan, Tibungco, Davao Cit	ty	
NO.	ITEM	AGENCY SPECS	QTY	UNIT

		With permanently fused markings, packed in protective sleeving		
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set

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Lot 3.	Aquaculture			
	1	Display Type: LCD		
1	Dissolve Oxygen Meter	DO Measurement: 0 - 45 mg/L	4	unit
		Temperature Compensation: -5 to 50°C		
		Type: Analog		
2	Salinity Refractometer	Specific Gravity (SG): 1.000 - 1.070	5	unit
		Measurement Range: 0 to 100 %		
		Meter Type: Portable		
2	Cail Di I Matan	pH Range: 0 - 14 pH	_	!4
3	Soil PH Meter	pH Resolution - ± 0.2 pH	5	unit
		Humidity Range: 0 to 8%		
		Meter Type: Digital		
4	Mateur Theorem are at an	Display Type: LCD	4	! 4
4	Water Thermometer	Measuring Range: -200 to 1,370°C	4	unit
		Resolution: 0.1°C, 1°C		
		Meter Type: Digital		
		Display Type: LCD		
_	District NAV L. Dillag	Measurement Range: -2 to 16 pH		•.
5	Digital Water PH Meter	Resolution: 0.01	4	unit
		Accuracy: ± 0.1		
		Temperature Compensation: -10 to 120°C		
		Type: Portable		
_		Size: 20 cm diameter with black and white sections		
6	Secchi Disk	- with calibrated line marked every half meter	5	unit
		up to 20 meters		
-	 	Test Range		
		Ammonia Nitrogen: 0 - 3 ppm (mg/L)		
		Nitrite Nitrogen: 0 - 0.8 ppm (mg/L)		
		pH: 4 - 10		
		Alkalinity: 0 - 4000 ppm (mg/L)		
7	Water Quality Test Kit	Carbon Dioxide: 0 - 100 ppm (mg/L)	4	unit
		Chloride: 0 - 400 ppm (mg/L)		
		Dissolved Oxygen: 0 - 20 ppm (mg/L)		
		Total Hardness: 0 - 4000 ppm (mg/L)		
		Temperature: -5 - 50°C		
		Meter Type: Portable/ Electrode		
		Display Type: LCD		
		Water Proof		
	Multiparameter Meter			
8	Multiparameter Meter	USB Connectivity	2	unit
	System	pH Range: 0 - 14		
		Salinity Range: 0 - 70		
		Dissolved Oxygen Range: 0 to 50 ppm		
		Temperature Range: -5 to 105°C		
		Material: Stainless Steel		
		Sampling Area: 6" x 6"		
9	Eckman Dredge	Inchesive of the following as	4	unit
		Inclusive of the following accessories:	•	
		Messenger		
		Steel Aircraft Cable (100 meters)		
40	Portable Arc Welding	Inverter type portable welding machine, ground clamp,		
10	Machine	power cables and welding cables, input power: 220 V,	4	unit
		output current: 200 Ampere		L

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		Engine with water nump		
11	Water Pump	Engine with water pump Engine: 7 - 10 hp	2	unit
11	vvaler Fultip	Water pump - NS 100		umt
		Heavy duty; two door reach-in, stainless steel body;		
12	Freezer	capacity: 500 liters; 220 V/ 60 Hz; single phase	2	unit
		Engine Type: 4 Stroke	+	
		Fuel: Gasoline		
13	Grass Cutter		4	unit
		Displacement: 35.8 cc Fuel Tank: 630 ml - 700 ml		
Lot 1	4. Information and Com			
LOU	4. Information and Com	i7 (2.5GHZ- Minimum Speed)		
		8Gb RAM DDR4		
		512GB SSD		
		·4GB Dedicated Video Card		
4	1 amtam	15.6" Display	40	
1	Laptop	Mouse	13	unit
		Wired and wireless Ethernet connection		
		At least two (2) USB Port		
		Windows 10 or latest OS		
		Microsoft Office (Full Installation)		
		Educational License	ļ	
		With Print, Scan, Copy, Fax features		
		Tank type ink system		
		Supports A4 and Legal Paper sizes		
2	Inkjet Printer	Approximately 15 page per minute (Black)	3	unit
_		Can scan documents over network environment		4 ,
		Photo Quality		
		WiFi Connectivity		
		1 WAN and 4 LAN ports		
		802.11g, 802.11n		
3	Wireless Router	USB port for shared printing/storage	3	unit
Ū	VIII CICSS (Codici	English firmware/ User interface		uiiit
		Supports home and cloud application		
		65 inch	+	
		High Definition (3,840 × 2,160)		
		SMART Features		
4	Smart TV	Ethernet and Wireless Connectivity	1	unit
~	Siliait IV	USB, HDMI and A/V port with wall mount	1	unit
		provision		
		Multi-system compatible		
		128 GB Storage		ļ
5	Tablet	WiFi	4	فنصرر
Ü	Iabiei		4	unit
		With installed MS Office Application	+	
		8 TB		
		At least 2 Hard disk bay		
6	Network Attached	2 LAN Port (Gigabit Interface)		
6	Storage	USB port	1	unit
		English firmware/ User interface		
		With file and media server		
	<u> </u>	Windows and MAC Compatible		
7	Multimedia Projector		1	unit

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		Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless		
		8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio;	,	
8	CCTV System	Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style	1	unit
9	Drone	Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km)	1	unit
		Battery: 6000 mAh liPo 2S		

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs				
	Lupon Schoo	ol of Fisheries – Barrio Sainz, Mati, Davao Oriental		
NO.	ITEM	AGENCY SPECS	QTY	UNIT
		Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System; Downward Vision System Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m)		
		Camera Sensor: 1" CMOS, Effective pixels: 20M Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)		
		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720		
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure		
	1	Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)		
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required		
		Charger Voltage: 17.4 V		
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC	1	unit
Lot 1	5. Science Lab (Chemis	try and Physics)		
1	Graduated Cylinder	Polypropylene (plastic) material	10	рс

nd for the

_		10 ml capacity		
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс
3	Test Tubes	Glass material Large 15 ml capacity	12	рс
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	рс
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment. Calibrated in newtons	10	set
15	Vernier Caliper	Science ware Digi-MAX Double scales	10	set

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	Procurement of Training Tools and Equipment for the Higher Level					
	DAC Qualification of the 23 CenTExs					
	Lupon School of Fisheries – Barrio Sainz, Mati, Davao Oriental					
NO.	ITEM	AGENCY SPECS	QTY	UNIT		

				
		Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep		
		Inside jaws and round plastic rod depth gauge provide added value		
		Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight		
16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
		Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x		
17	Biological Microscope	Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see	1	unit
		Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing		
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C	7	рс
		With permanently fused markings, packed in protective sleeving		
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop	5	рс
22	Reagent Bottle	Bristles approximately 25 mm (1 inch) diameter Dark glass with special cap/ stoppers 250 ml capacity	5	рс
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set



	Procurement of Training Tools and Equipment for the Higher Level				
	DAC Qualification of the 23 CenTExs				
	Lupon School of Fisheries – Barrio Sainz, Mati, Davao Oriental				
NO.	ITEM	AGENCY SPECS	QTY	UNIT	

Lot 16	S. Surveying Equipment			
1	Total Station Surveying Equipment	3.5" Large Dual Touch-screen HD Display Android Smartphone as data collector EDM Trigger, automatically measurement key 500 Meters long range reflector less 200,000.00 points memory data upload/ download Complete surveying/ construction/ road programs on board Electronic Bubble; direct data plotting on main screen Alphanumeric Keys for easy and quick data input MS Windows Compatible; GPS data ready Data Text, DXF, CSV/ AutoCAD ready Telescope - Length: 125 - 152 mm - Magnification: 30x - Image: Erect - Field of View: 1°20' - 1°30' - Resolve Power: 3" - Min. Focus Distance: 1.3 - 1.7 m	1	unit
		Measurement Range: 1.5 to 5,000 meters		

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Gen. Santos National School of Arts and Trades – Tiongson St., Lagao, General Santos City

NO. ITEM AGENCY SPECS QTY	TY UNIT
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Lot 9.	Refrigeration and Air-Co	onditioning Servicing NC III		- 1900
1	Variable Refrigerant Frequency Air Conditioning Unit with Central Controller	8 HP capacity outdoor unit with 4 fan coil unit (FCU) 1 HP wall mounted 2 HP ceiling suspended cassette type (FCU) 220 volts 1 phase 60 hz	2	unit
2	Inverter Type Air Conditioning Unit (Cassette)	PACU cassette type A/C unit; 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3.0 tons	4	unit
3	Inverter Type Air Conditioning Unit (Ceiling Concealed)	Package type A/C unit, ceiling concealed ducted inverter split type, 5.0 kw, 220 v0lts, 60 hz, 2 hp capacity	4	unit
4	Inverter Type Air Conditioning Unit (Floor Mounted)	Split type A/C unit , floor mounted, 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3 TR	4	unit
5	Inverter Type Air Conditioning Unit (Wall Mounted)	Split type A/C unit, wall mounted, 220 volts, 60 hz, 1 phase, cooling capacity, 10 kw, 3 hp capacity	4	unit
6	Oxy-acetylene with Complete Accessories	With complete accessories, cuts up to 15 mm, welds up to 5 mm with torch handle, equal pressure cutting attachment for acetylene and alternative fuels, mixer, 3 welding tips, cutting tips, single stage cylinder regulator for oxygen, safety goggle, igniter and flints, 10 way tank wrench, 6 m twin hose, brass handle with large flow capacity for heavy duty applications	4	unit
7	Welding Helmet (Auto-Darkening)	Auto darkening lense, wide vision, variable shade from DIN 9-13	5	рс
8	Portable Arc Welding Machine	Inverter type portable welding machine, ground clamp, power cables and welding cables, input power 220 V, output current: 200 Ampere	4	unit
9	Leak Detector	Intended for 404A, 410A, digital type heated diode sensor with mechanical pump, sensitivity level 2, sensitivity per year 0.25 ounce/ year, CFC's, HCHF and HFC, sensor 2D alkaline batteries spare, filter and hard plastic carrying case, unit cases heated diode sensor technology automatically compensate for changing background, contamination	4	unit
10	Anemometer SE	Digital type, measuring the current wind speed with minimum and average values, temperature display and percieve temperature (wind chill), wind strength can be set as meter, m/s, km/h, mph, knots	5	unit
11	Refrigerant Recovery Machine (Hydrocarbons)	220-240 VAC, 60hz, with recovery tank of 50 lbs capacity, direct liquid of 3.03 lbs per minute, direct vapor of 0.03 lb per minute, push/pull of 12.22 lbs per minute	4	unit
12	Vacuum Pump	Two-stage, 220 VAC, 60 hz, single phase, 5.0 CFM capacity	4	unit
13	Portable High Pressure Washer	220 volts, 60 hz, 1 hp capacity, single phase	5	unit
14	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	4	unit

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Gen. Santos National School of Arts and Trades – Tiongson St., Lagao, General Santos City

NO.	ITEM	AGENCY SPECS	QTY	UNIT
15	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase	4	unit
Lot 14	1. Information and Com	munication Technology		
1	Laptop	i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4 512GB SSD -4GB Dedicated Video Card 15.6" Display Mouse Wired and wireless Ethernet connection At least two (2) USB Port Windows 10 or latest OS Microsoft Office (Full Installation) Educational License	13	unit
2	Inkjet Printer	With Print, Scan, Copy, Fax features Tank type ink system Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black) Can scan documents over network environment Photo Quality WiFi Connectivity	3	unit
3	Wireless Router	1 WAN and 4 LAN ports 802.11g, 802.11n USB port for shared printing/storage English firmware/ User interface Supports home and cloud application	3	unit
4	Smart TV	65 inch High Definition (3,840 × 2,160) SMART Features Ethernet and Wireless Connectivity USB, HDMI and A/V port with wall mount provision Multi-system compatible	1	unit
5	Tablet	128 GB Storage WiFi With installed MS Office Application	4	unit
6	Network Attached Storage	8 TB At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface With file and media server Windows and MAC Compatible	1	unit
7	Multimedia Projector	Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels	1	unit

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Gen. Santos National School of Arts and Trades – Tiongson St., Lagao, General Santos City

NO.	ITEM	AGENCY SPECS	QTY	UNIT
		Lamp life: 3,000 hours		
		USB port: Type Bx1 Interface: wired/ wireless		
8	CCTV System	8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style	1	unit
9	Drone	Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh IiPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones	1	unit

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Gen. Santos National School of Arts and Trades – Tiongson St., Lagao, General Santos City

NO.	ITEM	AGENCY SPECS	QTY	UNIT
		Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System, Downward Vision System		
		Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground		
		Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M		
		Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m	'	
		ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)		
		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720		
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure		
		Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)		
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required		
		Charger Voltage: 17.4 V		
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC	1	unit
Lot 1	5. Science Lab (Chemist	<u> </u>		
1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity	10	рс
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс
3	Test Tubes	Glass material Large	12	рс

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Gen. Santos National School of Arts and Trades - Tiongson St., Lagao, General Santos

AGENCY SPECS

QTY

UNIT

NO.

ITEM

		15 ml capacity	1	
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	pc
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment.	10	set

10 set 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions my m m

Calibrated in newtons

Length: 9 inch (23 cm)

Science ware Digi-MAX Double scales

Polymeric plastic

Vernier Caliper

15

Gen. Santos National School of Arts and Trades – Tiongson St., Lagao, General Santos City

AGENCY SPECS

QTY

UNIT

ITEM

NO.

22

23

Reagent Bottle

Lens Mirror Prism

	Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value		
	Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal		
Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen	1	unit
Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	7	рс
PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80	5	box
Safety Gloves	Lightly powdered latex gloves	5	pack
Test Tube Brush	300 mm / 12 lnch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс
	Biological Microscope Thermometer PH Papers (Per Box) Safety Gloves	Inside jaws and round plastic rod depth gauge provide added value Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving PH Papers (Per Box) Safety Gloves Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch 300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop	Inside jaws and round plastic rod depth gauge provide added value Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box Safety Gloves Dightly powdered latex gloves pairs per pack, size 8 - 8.5 inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Test Tube Brush

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Dark glass with special cap/ stoppers

250 ml capacity
Physical Science Optical Experiments Kit

Contains triangular prism, convex lens, and concave

mirror fisica for Student's Optics Physics Experiment

Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Northern Mindanao School of Fisheries – Matabao, Buenavista, Agusan del Norte NO. ITEM AGENCY SPECS QTY UNIT

Lot 3.	Aquaculture			
1	Dissolve Oxygen Meter	Display Type: LCD DO Measurement: 0 - 45 mg/L Temperature Compensation: -5 to 50°C	4	unit
2	Salinity Refractometer	Type: nalog Specific Gravity (SG): 1.000 - 1.070 Measurement Range: 0 to 100 %	5	unit
3	Soil PH Meter	Meter Type: Portable pH Range: 0 - 14 pH pH Resolution - ± 0.2 pH Humidity Range: 0 to 8%	5	unit
4	Water Thermometer	Meter Type: Digital Display Type: LCD Measuring Range: -200 to 1,370°C Resolution: 0.1°C, 1°C	4	unit
5	Digital Water PH Meter	Meter Type: Digital Display Type: LCD Measurement Range: -2 to 16 pH Resolution: 0.01 Accuracy: ± 0.1 Temperature Compensation: -10 to 120°C	4	unit
6	Secchi Disk	Type: Portable Size: 20 cm diameter with black and white sections - with calibrated line marked every half meter up to 20 meters	5	unit
7	Water Quality Test Kit	Test Range Ammonia Nitrogen: 0 - 3 ppm (mg/L) Nitrite Nitrogen: 0 - 0.8 ppm (mg/L) pH: 4 - 10 Alkalinity: 0 - 4000 ppm (mg/L) Carbon Dioxide: 0 - 100 ppm (mg/L) Chloride: 0 - 400 ppm (mg/L) Dissolved Oxygen: 0 - 20 ppm (mg/L) Total Hardness: 0 - 4000 ppm (mg/L) Temperature: -5 - 50°C	4	unit
8	Multiparameter Meter System	Meter Type: Portable/ Electrode Display Type: LCD Water Proof USB Connectivity pH Range: 0 - 14 Salinity Range: 0 - 70 Dissolved Oxygen Range: 0 to 50 ppm Temperature Range: -5 to 105°C	2	unit
9	Eckman Dredge	Material: Stainless Steel Sampling Area: 6" x 6" Inclusive of the following accessories: Messenger Steel Aircraft Cable (100 meters)	4	unit
10	Portable Arc Welding Machine	Inverter type portable welding machine, ground clamp, power cables and welding cables, input power: 220 V, output current: 200 Ampere	4	unit

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Northern Mindanao School of Fisheries – Matabao, Buenavista, Agusan del Norte NO. ITEM AGENCY SPECS QTY UNIT

7	Multimedia Projector		1	unit
		With file and media server Windows and MAC Compatible		
6	Network Attached Storage	At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface	1	unit
5	Tablet	WiFi With installed MS Office Application 8 TB	4	unit
4	Smart TV	65 inch High Definition (3,840 × 2,160) SMART Features Ethernet and Wireless Connectivity USB, HDMI and A/V port with wall mount provision Multi-system compatible 128 GB Storage	1	unit
3	Wireless Router	1 WAN and 4 LAN ports 802.11g, 802.11n USB port for shared printing/storage English firmware/ User interface Supports home and cloud application	3	unit
2	Inkjet Printer	With Print, Scan, Copy, Fax features Tank type ink system Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black) Can scan documents over network environment Photo Quality WiFi Connectivity	3	unit
1	Laptop	i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4 512GB SSD ·4GB Dedicated Video Card 15.6" Display Mouse Wired and wireless Ethernet connection At least two (2) USB Port Windows 10 or latest OS Microsoft Office (Full Installation) Educational License	13	unit
Lot 1	4. Information and Comi			
13	Grass Cutter	Engine Type: 4 Stroke Fuel: Gasoline Displacement: 35.8 cc Fuel Tank: 630 ml - 700 ml	4	unit
12	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	2	unit
11	Water Pump	Engine with water pump Engine: 7 - 10 hp Water pump - NS 100	2	unit

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Northern Mindanao School of Fisheries – Matabao, Buenavista, Agusan del Norte

Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m)	NO.	ITEM	AGENCY SPECS	QTY	UNIT
Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC			Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1		
Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller 1 u Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC	8	CCTV System	Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F	1	unit
Battery: 6000 mAh liPo 2S	9	Drone	Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km)	1	unit

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		DAC Qualification of the 23 CenTExs		
		chool of Fisheries – Matabao, Buenavista, Agusan		
NO.	ITEM	AGENCY SPECS	QTY	UNI
		Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones		
		Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System, Downward Vision System		
		Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground		
		Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M		
		Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m		
		ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)		
		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720		
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure		
		Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)		
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required		
		Charger Voltage: 17.4 V		
10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC	1	uni
ot 15	5. Science Lab (Chemis	try and Physics)		
)t 15	5. Science Lab (Chemis Graduated Cylinder	Polypropylene (plastic) material	10	Г

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs Northern Mindanao School of Fisheries – Matabao, Buenavista, Agusan del Norte NO. ITEM AGENCY SPECS QTY UNIT

		10 ml capacity		
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс
3	Test Tubes	Glass material Large 15 ml capacity	12	рс
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	рс
5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс
7	Beaker	Durable glass material 250 m Borosilicate	5	рс
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс
12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс
14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment. Calibrated in newtons	10	set
15	Vernier Caliper	Science ware Digi-MAX Double scales	10	set

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Northern Mindanao School of Fisheries – Matabao, Buenavista, Agusan del Norte

NO.	ITEM	AGENCY SPECS	QTY	UNIT
		Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm)		
		Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value		
		Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight		
16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set
17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen Adjustable arm (0° to 60°) for comfortable viewing	1	unit
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	7	рс
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack
21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	рс
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set

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Procurement of Training Tools and Equipment for the Higher Level					
	DAC Qualification of the 23 CenTExs				
Northern Mindanao School of Fisheries – Matabao, Buenavista, Agusan del Norte					
NO.	ITEM	AGENCY SPECS	QTY	UNIT	

Lot 1	6. Surveying Equipment			
1	Total Station Surveying Equipment	3.5" Large Dual Touch-screen HD Display Android Smartphone as data collector EDM Trigger, automatically measurement key 500 Meters long range reflector less 200,000.00 points memory data upload/ download Complete surveying/ construction/ road programs on board Electronic Bubble; direct data plotting on main screen Alphanumeric Keys for easy and quick data input MS Windows Compatible; GPS data ready Data Text, DXF, CSV/ AutoCAD ready Telescope - Length: 125 - 152 mm - Magnification: 30x - Image: Erect - Field of View: 1°20' - 1°30' - Resolve Power: 3" - Min. Focus Distance: 1.5 to 5 000 meters	1	unit
		Measurement Range: 1.5 to 5,000 meters		1

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Section VII. Technical Specifications

Technical Specifications

Item	Specification See attached Technical	Statement of Compliance.
	See attached Technical	
	specifications	
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	TESDA	A'S SPECIFICATIONS	BIDDER'S SPEC	CIFICATIONS	
No.	Item	Specifications	Item/Brand/Model	Specifications	
1	Farm Tractor	4 wheel drive with the following specifications Engine: direct injection, vertical, water- cooled 4 cycle diesel No. of cylinder: 3 - 4 Engine gross power: 35 -50 hp Rated revolution: 2200 - 2700 rpm Hydraulic system: position control with attachment of any of the following: disc plow, disc harrow, rotary tiller, & trailer			
2	Rice Combine Harvester	Engine: 50-70 hp water-cooled diesel engine Travelling speed: 0-0.97 m/sec (low), 0-1.91 m/sec (high) Cutting width: 2,000 - 3,000 mm Threshing system: axial-flow type Harvesting capacity: 0.1 - 0.8 ha/hr			
3	Corn Sheller	Capacity: 1-5 tons per hour (@50 kg/cavan) Shelling Recovery: 95 - 99% Power Requirement: 7 - 14 hp diesel engine			
4	Double Pass Rice Mill	300 - 1500 kg/hr (10 - 30 cavan/ hr)			
5	Grain Moisture Meter	Measuring Range: Corn, 8-36% MC Measuring Range: Palay, 9-40% MC Accuracy: ±0.2 - 0.5 % MC (10-20%) Power source: AC/DC (battery-operated)			

6	Hand Tractor	Power requirement: 6 - 10 hp Overall length: 1500 - 2700 mm Overall width: 750 - 1200 mm Overall height: 800 - 1150 mm With attachments of any of the following: disc plow, harrow, and cage wheel	
7	Mechanical Rice Transplanter	Engine: Air-cooled, 4-stroke Power requirement: 1.5 - 4.5 kW Planting row: 4 rows Row distance: 30 cm Planting capacity: 1 - 1.5 ha/day	
8	PH Meter	Range: 0 - 14 pH Moisture: 0 - 10% (0-100%) Resolution: 0.01 - 0.2 pH Type: Portable/ pen-type	
9	Single Cylinder Diesel Engine	Water-cooled, horizontal, single-cylinder, 4-stroke diesel engine horsepower: 7 - 14 hp	
10	Thresher	Construction: all steel Power requirement: 10 - 14 hp	
11	Water Pump	Engine with water pump Engine: 7 - 10 hp Water pump - NS 100	

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Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:



Lot	2. Agricultural Mechanizatio	n		
	TESDA	'S SPECIFICATIONS	BIDDER'S SPECI	FICATIONS
No.	Item	Specifications	Item/Brand/Model	Specifications
1	Mechanical Dryer Recirculating Type	Capacity (Kg): 6.000 to 10,000 Loading Rate: 25 - 75 min Unloading Rate: 15 - 75 min Drying Rate: At least 0.5% - 3% per hour		
2	Walker Behind Vibrator Roller Compactor	Double drum Operating Weight 550 - 800 kgs Engine: Diesel or Gasoline Engine at 6.0 to 18 hp Travel Speed: 2 km/hr - 7.5 km/hr. Centrifugal Force: 15 KN to 25 KN.		
3	Rice Combine Harvester	At least 70 Horse Power Diesel Engine; Speed harvesting at 1.85 meters/second 2.00 to 3.00 meters cutting width		
4	Agricultural/ Farm Tractor Four Wheel Drive (90 -120 Hp) with Three (3) Point Hitch Linkage	Engine Power: 90 -120 hp with Rated Engine Speed of at least 2100 Rev/Min Number of Engine Cylinder: 4 - 6		

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5	Rotavator/ Rotary Tiller - Four (4) Wheel Tractor Mounted	Mounted within 50 - 100 hp Agricultural/ Farm Tractor Working Width of 2000 mm and at least 44 blades working at 2100 rpm engine speed	
6	Four Bottoms Disc Plough, Four (4) Wheel Drive Tractor Mounted	Mounted to the Agricultural Tractor Power with 60 to 120 hp Tractor Working Width 1000 - 1600 mm Number of Disk: 4 Disk Diameter: 500 - 700 mm	
7	Engine Operated Chainsaw	Engine: Gasoline type Power Output: at least 5 hp (3.7 kw/ 4.8 bhp) Bar Length at least 20 inches	

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3	Name of Bidder:	Name and Signature of Authorized Representative:
		Position/Designation:
		Date:

Lot	3. Aquaculture			
	TESI	DA'S SPECIFICATIONS	BIDDER'S SPECIFICATIONS	
No.	Item	Specifications	Item/Brand/Model	Specifications
1	Dissolve Oxygen Meter	Display Type: LCD DO Measurement: 0 - 45 mg/L Temperature Compensation: -5 to 50°C		
2	Salinity Refractometer	Type: Analog Specific Gravity (SG): 1.000 - 1.070 Measurement Range: 0 to 100 %		
3	Soil PH Meter	Meter Type: Portable pH Range: 0 - 14 pH pH Resolution - ± 0.2 pH Humidity Range: 0 to 8%		
4	Water Thermometer	Meter Type: Digital Display Type: LCD Measuring Range: -200 to 1,370°C Resolution: 0.1°C, 1°C		
5	Digital Water PH Meter	Meter Type: Digital Display Type: LCD Measurement Range: -2 to 16 pH Resolution: 0.01 Accuracy: ± 0.1 Temperature Compensation: -10 to 120°C		

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6	Secchi Disk	Type: Portable Size: 20 cm diameter with black and white sections - with calibrated line marked every half meter up to 20 meters	
7	Water Quality Test Kit	Test Range Ammonia Nitrogen: 0 - 3 ppm (mg/L) Nitrite Nitrogen: 0 - 0.8 ppm (mg/L) pH: 4 - 10 Alkalinity: 0 - 4000 ppm (mg/L) Carbon Dioxide: 0 - 100 ppm (mg/L) Chloride: 0 - 400 ppm (mg/L) Dissolved Oxygen: 0 - 20 ppm (mg/L) Total Hardness: 0 - 4000 ppm (mg/L) Temperature: -5 - 50°C	
8	Multiparameter Meter System	Meter Type: Portable/ Electrode Display Type: LCD Water Proof USB Connectivity pH Range: 0 - 14 Salinity Range: 0 - 70 Dissolved Oxygen Range: 0 to 50 ppm Temperature Range: -5 to 105°C	
9	Eckman Dredge	Material: Stainless Steel Sampling Area: 6" x 6" Inclusive of the following accessories: Messenger Steel Aircraft Cable (100 meters)	

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10	Portable Arc Welding Machine	Inverter type portable welding machine, ground clamp, power cables and welding cables, input power: 220 V, output current: 200 Ampere	
11	Water Pump	Engine with water pump Engine: 7 - 10 hp Water pump - NS 100	
12	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	
13	Grass Cutter	Engine Type: 4 Stroke Fuel: Gasoline Displacement: 35.8 cc Fuel Tank: 630 ml - 700 ml	

	Name of Bidder:	Name and Signature of Authorized Representative:
*		Position/Designation:
		Date:

Lot 4	Lot 4. Automotive Servicing			
	TI	ESDA'S SPECIFICATIONS	BIDDER'S SPECIFICATIONS	
No.	Item	Specifications	Item/Brand/Model	Specifications
1	Parts Washer	Drum: Inside dimensions - 7" H X 28" W X 22" D Fluid Requirements: 10 gallons Input: 120 V/ 220VAC (60 Hz) Pump Volume: 210 GPH Output Pressure: 50 PSI Dimensions: 35" X 31" X 23" Open Height: 60"		
2	Tire Changer	Inside clamping: 13 - 26" Outside clamping: 11 - 24" Voltage: 220 V Motor Power: 0.75 kw/ 1.1 kw HP: 1 Operating Pressure: 90 psi		





3	Roller Cab/ Trolley Tool Set	5 Drawers Roller Cab with the following tool set: 1 set Screwdriver L-shape Wrench 1 set Double-open-end wrench 1 set 45 deg. Double wrench set 1 set Ratcheting combination wrench set 1 set Adjustable wrench set 1 set Standard pliers set 1 set Circlip plier set 1 set Impact socket set 1 set 3/8" Square drive socket set 1 set 1/4" Square drive socket set 1 set 1/2" Square drive socket set	
4	Lifter Wheel Aligner	Design: Scissor Lifting Capacity: 3500 - 5000 kg Lifting Height: 1700mm Motor: 220V/ 50 Hz	
5	Electronic Battery Tester	Battery Nominal Voltage: 12 V CCA: 125 A to 1400 A SAE/EN: 200 A to 900 A DIN/ IEC: 120 to 550 3-4 digit LED display	

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6	Car Wheel Balancer	Power supply: 220 V/ 380 V Measuring time: 8-20 sec. Max. rim diameter: 10" - 24" Balancing speed: 42 - 220 rpm Max. rim width: 1.5" - 20" Max. wheel weight: 65 kg Balancing accuracy: ± 5g	
7	Global Diagnostic System (GDS) Professional Scanner	CPU: Dual Core 1 GHz Battery: 3000mh, rechargeable Extension Memory Card: 32 G Memory: 512 MB LCD: 7.0 inch LCD Resolution: 1024 x 600 Screen: capacitive touch screen Cameras: 2 mega rear and 0.3 mega front	
8	Front Wheel Alignment Trainer	Included item: Original vehicle steering wheel Camber caster steering axis inclination A set of two wheels- turntable with gauges allows for measurement of the degree of turn on both sides of zero (for calculation of toe-in & toe-out) Ball joint inspection gauge for checking upper and lower ball joint condition, out of round tires and wheel run out.	

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Technical Description:

- 1. The trainer consists of an original front end unit from a typical passenger vehicle.
- 2. It has been modified for quick adjustment of all alignment and steering geometry points.
- 3. The unit is mounted on a special stand which facilitates alignment procedures and utilization of test equipment and accessories. The trainer comes with two wheel rims with tires.

Additional recommended accessories or options:

Original vehicle steering wheel

Camber/ caster steering axis inclination gauge

A set of two wheel turntables with gauges allows for measuring of the degree of turn on both sides of zero for calculation of toe-in and toe-out

Ball joint inspection gauge for checking upper and lower ball joint condition, out of round tires and wheel run out

The following topics are covered in the instruction program:

General theory on suspension and steering system including different types and geometry principles.

Pre-alignment check procedures: tire pressure and wear, front wheel bearing play and adjustment, ball joint play inspection, shock absorber wear, steering gear looseness



		Caster: determination, adjustment and correction Camber: determination, adjustment and correction (positive and negative)	
		The major components included are: Four rotating wheels with wheel sensors, with digital speed display for each wheel (4 digital displays);	
		4 variable speed electrical drive systems for each wheel to control the individual speed of each wheel, master brake cylinder with pedal handle;	
9	Anti-Lock Braking System with Traction Control	ABS hydraulic actuator (modulator) unit which is controlled by the on-board computer system (ECU);	
ָּבָּי נָבּ	System (TCS)	Five brake line pressure gauges to show the pressure differentials from the master brake cylinder to the individual wheels;	
		Brake Master Cylinder with Vacuum assists boosts mechanism and brake pedal assembly;	
		The front of the trainer features precise schematic color graphic illustrations that clearly explain the operation of the entire ABS and braking system;	
		A control panel is provided with an on/ off power switch, power system light (POWER	

ON), ABS warning light (indicated problems) and an ABS operational light (ABS ON). Also has Volt and Ampere meters to measure the DC input power and a brake light to show the operation of the braking system just as on the vehicle;

Special Road Conditions and Performance Display Panel;

Optional Electronic Fault insertion panel and Electrical Test Point:

The trainer comes complete with a training course on ABS operation and servicing including student job sheets and a technical manual on ABS systems;

A series of options to enhance the trainer such as fault insertion systems, power supplies and additional instructional materials, vacuum pump for power brake boost;

Power Source: Note that 30A, 12 Volt DC power source is required from the shop to operate the trainer. If none is available an optional 12 VDC power supply can be ordered to provide this correct power



		Electrical control gasoline engine assembly, auto fault	
		Automatic transmission assembly Electrical and electronic devices such as: ECM, TCM, AFS, CKP, CMP, O2 sensor, WTS, control relay and etc.	
		Injector, filter, fuel tank, fuel pump, fuel equipment, DC 12 V/ 60 A, battery 12 volts	
		Ignition coil built -in, spark plug, high voltage resistant cables	
10	Half-Cut AUV Engine Management System	Cooling system: radiator, overflow tank Exhaust system: Catalytic converter, Emission, Silencer	
		Ignition switch with key Anti-vibration dampers and a urethane wheels Control box, fuel tank, accelerator lever Automatic transmission oil pressure gauge for each singular (1.5MPA*83,2.5 MPA*4)	
		Vacuum pressure gauge (1 MPA) Fuel pressure gauge Battery voltage gauge (30 V)	
		Note Includes : training manual/ module	
11	Airbag System Trainer	The trainer consist of the following components:	
		Sectioned steering wheel with deployable and reusable airbag	

Pressure regulator with air filter, solenoid valve and compressed air connection

Airbag system circuit diagram with connection and test points

Set of two mm test connection leads
Inflator unit
Rear cable unit
SRS control unit
Airbag simulator with graphic and LED display
Crash switch simulation system
Dash sensor unit
Fuse
Power indicator light
Ignition switch

Technical Parameters:

The steering unit with a typical restraint unit. Additional components and controls are mounted on the board to complete the system such as the impact crash sensor and controls. The airbag operation is demonstrated and realistic faults are also introduced to show typical problems in the units.

A typical electronic circuit for the SRS system is incorporated into the trainer. This can be used also for realistic fault simulation to show typical problem in the units. After the circuit is connected, the airbag operation is both simulated via LED graphic display that shows the detonation and deployment of the air bag



		system in a simulated crash situation. And also the airbag deploys, synchronized with the LED graphic display unit, through the use of compressed air and a pressure regulator. The trainer comes with a comprehensive manual covering the operation of the trainer.	
		The pump consists of a diaphragm with one way valve and thus the pump will only be heard to click when connected to the exhaust	
12	Gas Tester	CO Function Specification: - Calibrated range: 0-10% CO - (indicates un-calibrated to 20% C) - Accuracy: +/-0.5% CO typical - (throughout the indicated range 0.5% CO to 6.5% CO)	
		Kit Contents: - Gas tester instrument including collector box and pulse pump/ water trap assembly - Metal exhaust probe with retaining springs - Flexible plastic pipes (3 lengths) - Instruction handbooks	

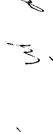
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	-	Compact and Lightweight	
		40% smaller footprint, easy to carry, weighing in at 18 lbs	
		Oil-less compressor Capable of recovering both liquid and vapour	
		Handles almost all refrigerants Works with all common CFC, HFC, HCFC Refrigerants including R-410A	
13	Recovery Machine	High efficiency cross flow design Lay-out of fan and condenser is maximized for shorter cycle times	
į		High pressure safety shut-off switch Automatically shuts off machine if pressure rises above PSI	
		Easy to operate Rugged case	
		Easy to read gauges, comfortable handle and simple 2 valve controls IEC connector and power cord	



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Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:



TESDA'S SPECIFICATIONS			BIDDER'S SPECIFICATIONS	
No.	Item	Specifications	Item/Brand/Model	Specifications
		This system teaches operation, installation, applications and troubleshooting of electric relay type motor control systems. The system contains the following items: Workstation Console, set of Control Stations, Hand-held Multimeter, Lead Set, Electric Motor, Motor Mounting Frame, Student Curriculum, and Instructor's guide.		
1	Electrical Motor Control Learning System	The following stations is supplied: Safety Switch Power Station (1 pc fused 3-phase safety switch, 2 pcs. Padlocks, 2 pcs. Safety tags, 4 pcs. Banana jacks, 1 pc Preattached power cord 4 poles, 5 wires, 1 pc. Lockout/Tagout mechanism, 1 pc. Fault Module		
		with 2 faults, 1 pc. Mounting unit for right angle orientation to trainer), Operator Station (1 pc. Green flush push button (1 N.O., 1 N.C.), 1 pc. Black flush push button (1 N.O., 1 N.C.), 1 pc. Red mushroom push button (1 N.O., 1 N.C.), 1		
		pc. Three position selector switch (2 N.O.), 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc 5-way binding post (ground), 1 Fault Module with 5 faults), Indicator Lamp Station (1		
		pc. Green indicator lamp, 1 pc. Push to test red indicator lamp, 1 pc. Yellow indicator lamp, 1		
		pc. 24 inch/ 61 cm green stackable banana lead, 7 pcs. 5-way binding posts (ground), 1 pc.		
		Fault Module with five (5) faults), Control Transformer Station (1 pc. 250VA control		

transformer with protective cover, 1 pc. Dual fuse block with protective cover,

4 pcs. 1.25 AMP class CC fuses (2 installed, 2 loose). 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5-way binding post (ground). 1 pc. Fault Module with three (3) faults), Reversing Contactor Station (2 pcs. 4 pole contactors, 1 pc Mechanical/ electrical interlock, 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5-way binding post ground, 1 pc. Fault Module with 5 faults). Overload Relay Station (1 pc. A-B overload relay, 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5way binding post (ground), 1 pc. Fault Module with 3 faults), Manual Motor Starter Station (1 pc. manual starter, 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5-way binding post (ground)), Multifunction Timer Station (1 pc. Multi-function timer with: on delay, off delay timing, interval, single shot timing, repeat cycle timing, pulse timing, 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5-way binding post (ground), 1 pc. Fault Module with 4 faults), Drum Switch Station (1 pc. three phase reversing drum switch, 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5-way binding post (ground), Limit Switch Station (2 pcs. Industrial grade limit switch (SPDT), 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5-way binding post (ground), 1 pc. Fault Module with 3 faults). Control Relay Station (2 pcs. Four pole relays (2 N.O. / 2 N.C.), 1 pc. 24 inch/ 61 cm green stackable banana lead, 1 pc. 5-way binding post (ground), 1 pc. Fault Module

with 5 faults), Pressure/ Float Switch Station (1 pc. Pressure switch (SPDT), 1 pc. Float switch (N.O. or N.C.), 1 pc. 24 inch/ 61cm green stackable banana lead, 1 pc. 5-way binding post (ground), Motor Connection Station (1 pc. Multi-pin industrial motor connector, 5 pcs. Red banana jacks, 5 pcs. Yellow banana jacks, 1 pc. Fault Module with 3 faults), Hand-Held Digital Multi-Meter, Stackable Banana Lead Set - 50 Leads, 3 Phase Induction Motor A 1/3 HP, NEMA 56 Frame machine rated at 208-230/460 Volts, 3 phase, Windings accessible through a multi-pin connector. To include: 1 pc. Motor mounting plate, 1 pc. Single end shaft for safety, 1 pc. Motor winding identification escutcheon, 1 pc. Fault Module with (2) winding faults.

Motor Mounting Frame

Is heavy duty steel frame construction, with predrilled holes for mounting of two motors, prony brake, electric brake, and flywheel. Minimum dimension is 27" W x 12" L x 4" H. The mounting surface is made of .125 in steel plate min, painted and silk-screened.

Prony Brake

A shaft torque measurement and load device. It consist of a formed steel gauge unit, aluminum brake drum with mounting for 5/8 inch motor shafts, balanced pulley, spring force gauge, load adjustment knob, double set screw locking device, coolant spray bottle. Load range is 0 - 3.05 N-m

HAND TOOL PACKAGE:

FAULT TROUBLESHOOTING SYSTEM (This system consist of a computer-based fault controller, (2) ribbon cables, (1) computer managed software, (1) installation/operation manual. This system is designed and programmed so that students can connect the system to a wide variety of industrial controls training systems to provide a means by which faults can be automatically inserted into a training system to provide student practice in troubleshooting the system. The characteristics of the system should be as follows: Fault Controller

(Includes enclosure with 35 fault relays, 10A 115/230 VAC rating, 35 cables, ribbon cable for connection to a host computer, computer-based controller, internal power supply, 120/230 VAC 50/60 Hz.), Student Curriculum

(The student curriculum consist of (1) set of 10 Learning Activity Packets 73 skills in electric motor control. The topics covered includes: motor starters, reversing starters, overload relays, motor start/ stop control, control transformers, magnetic motor starters, two wire control, three wire control, sequence control, jogging, on and off delay timing, sensor switches, and motor timer control. Students will learn installation, operation, schematic reading, circuit design, and troubleshooting), Teacher's Assessment/ Portfolio Guides (A teacher's

		guide is provided. It contains student data sheets, data sheet solutions, self-review answers, quizzes, quiz answers, student skill record sheets, and authentic assessment. A quiz is provided for each packet. A question is provided in each quiz for each cognitive objective taught. All tasks listed in the packet is listed on personalized student record sheets. The Instructor's Package includes directions for authentic skill assessment.)	
2	Variable Frequency AC Drive Learning System	Variable Frequency AC Drive Station Shall include the following: 1 pc. Variable Frequency AC Drive with (Built in control keypad, Ability to program 30 different operating parameters, Capability of displaying 10 different operating conditions, Shall be capable of operating 3-phase motors from a single-phase supply, Ability to accept commands from four (4) different sources: Keypad, External pot, 4-20□mA Signal, ± 10-90 VDC signal, Built in fault diagnostics, DC injection braking capability, PWM type output with adjustable carrier frequency (2 to 8 kHz), Provisions for addition of an external Dynamic Braking resistor, 1 pc. Two position fuse block with fuses, 3 pcs DPST push button switches, 3 pcs. SPDT toggle switches, 1 pc. 3 PST keylock safety switch, 1 pc. Potentiometer with 10 turn indicating dial, 1 pc. Fault Module with 5 faults)	

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				Motor Connection Station (Shall include one of	Í
			plug-in connections for a 3-phase motor)	Í	
				Í	
				Student Curriculum or Manual and with	İ
					İ
				Teacher's Assessment/ Portfolio Guides	
	İ			Phase Sequence Indicator (Indication of the	
				three phase via LCD, Indication of the phase	
				rotation direction via LCD, Swift determination	
				of the phase sequence in thee phase)	
				Voltage Range: 40 to 700 V	
				• Frequency range: 15 to 400 Hz	
				 Safety Complying with: IEC 61010/EN61010, 	
			IEC61557-7/EN61557-7		
		Electrical Measuring	 Current Consumption: approx. 1 mA @ 700 V 		
			Digital Storage Oscilloscope (4 channel, 60)		
			MHz, 5V/div Maximum vertical sensitivity, 2mV		
				Minimum vertical Sensitivity 50s/div Maximum	
			•		
	•		Measuring	time base, 5ns/div minimum time base, TFT	
	3	Instruments	3	LCD, 2mV minimum vertical sensitivity)	
		mod amonto		 Clamp Meter Features and Benefits (Peak 	
				hold, Switchable low pass filter, TRMS	
				measurement)	
			 Troubleshooting of RCD nuisance tripping 		
				(Periodic measurement of leakage current @50	
		ì		Hz to check for insulation deterioration,	
ł				· 1	
				Accurate measurement of triple neutral current	
				and other distorted waveforms, Differential	
				current measurement for appliance testing,	
				Auto ranging)	
				Safety category voltage: 300 V, 600 V, 1000	
				V, Safety category level: CAT II, CAT III, CAT	
				IV	
				Absolute maximum resistance: 600k Ohm	

AC current in the second	measurement resolution: 0.001mA	_
Best AC C	Current Accuracy: 1% + 8 digits,	İ
Best AC Volta	ige Accuracy: 1 % + 3 digits, Best	
DC Voltage A	ccuracy: 1 % + 2 Digits	
	ter (Optical and Mechanical	
measurement	of rotation speed, Rotation	
speed, speed	ed and length measurement,	
'	of min. and max. values as well	
as the last v	value at power down, Automatic	
Stop	•	
• Rotation sp	peed: 1.00 to 99,999 rpm optical,	
•	rpm mechanical	
· · · · · · · · · · · · · · · · · · ·	to 1999 m/min.	
1 -	/- 0.02% full scale (=/- 1 digit)	
 I		

4	PLC Motor Control Learning System	 11-Gauge Steel Panel featuring: Compact PLC- Micro Logix 1000 or 1200 PLC 16 digital Input-24Vdc 12 digital output relay Power input; 220-240-VAC / 60Hz. Connecting cables (300/ 1m. long) AC Inputs (10) Relay Outputs (6) Accessories: Programming cable software Power input- 220 V/ 60 Hz Simulator: 24 VDC 1 green push button (N.C.) 1 red push button (N.C.) 2- 3PSP Selector switch Output simulator: Buzzer 24 VDC 10 indicator lamp/ 24 VDC Short circuit protection features; Mounting required: Panel type w/ aluminum frame stand Student Curriculum and students manual 	
5	Reduced Voltage Starting Learning System	Each station includes the following components: Power Resistor Station (3 pcs.) Power Resistor Stations - (3 pcs.) 25 ohm, 100 watts Dual Transformer Station (2 pcs.) Control Transformers (250VA minimum) multiple tap primary (208, 277, 380	

		(VAC) single tap secondary (120 VAC)	
		and with;	
		Student Curriculum or Student manual	
		Assembly system for rotating electric machines	
		It includes the following components: Base	
		plate, Supports with bearing, Coupling joints,	
		Flexible coupling, Electronic speed transducer,	
		Assembling screws, Wrenches, DC stator, AC	
		stator, Rotor with commutator, Brush holder	
		with 2 brushes, Cage rotor, Ring rotor, Brush	
		holder with 6 brushes	
		POWER SUPPLY	
]	Outputs in AC:	
		 Three-phase: 24 V/ 14 A, 42 V/ 10 A 	
		• Single-phase: 0 – 48 V/ 5 A, 0 – 10 V/ 12 A	
	Electrical Machines	Outputs in DC:	
6	I and the second	• 32 V/ 14 A, 42 V/ 10 A, 0 – 40 V/ 5 A, 0 – 8	
	Learning System	V/ 12 A	
		Three-phase power supply from mains.	
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		LOADS AND RHEOSTAT	
		• resistors: 3x15 Ohm, 90 W each, 1 Ohm +	
		(0 – 2 Ohm), 80 W	

- capacitors: 3 x 80 μF, 150 V
- rheostat: 0 80 Ohm, 1 A

ELECTRICAL POWER DIGITAL MEASURING UNIT

Measurement in direct current of: voltage, current, power and energy.

Measurement in alternate current of: voltage, current, power, active energy, reactive energy, apparent energy, cos phi and frequency.

Main technical features:

- DC voltage: 300 VDC
- DC current: 20 ADC
- AC voltage: 450 VAC
- AC current: 20 AAC
- Power: 9000 W
- Power supply: single-phase from mains
- Communication: RS485 with MODBUS RTU protocol.

ADAPTER BRACKET

Necessary for connecting the locking device, the brake or the drive motor.



		The Electro-pneumatic training set includes	
		basic pneumatic training components. The user	
		· · · · · · · · · · · · · · · · · · ·	
		can train on the basics of electro-pneumatic	
		control.	
		Training Contents:	
		Physical principle of electro-pneumatics	
		2. Function of electro-pneumatics training set	
		3. Relay control circuit	
		4. Electric self-holding circuit	
		5. Feature of magnetic proximity switch	
		6. Electric sequence control circuit	
	Pneumatics & Electro-	7. Step diagram	
7	Pneumatic Training Set	The stop and grains	
}	. Hournaid Hairing Cot	Consist of:	
		1. Push button switch set	
		2. Relay 3-fold - 2 Units	
		_	
		3. Limit switch electrical, left and right actuated	
		4. Optical sensor	
		5. Electric proximity switch	
		6. 3/2 way solenoid valve (N/C)	
		7. 5/2 way single solenoid valve - 3 units	
		8. 5/2 way double solenoid valve - 3 units	
		9. Pressure switch	
		10. One-way flow control valve - 4 units	

	Name of Bidder:	Name and Signature of Authorized Representative:
- M		Position/Designation:
7		Date:

	TI	ESDA'S SPECIFICATIONS	BIDDER'S SPEC	CIFICATIONS
No.	Item	Specifications	Item/Brand/Model	Specifications
1	Food Processor	Heavy Duty, 5 liters, stainless steel bowl, 220 V/ 60 Hz, 1 Hp		
2	Water Boiler	30 liters capacity, stainless steel, 220 V/ 60 Hz		
3	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase		
4	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase		
5	Stove with Oven	Heavy duty; four burner gas stove with oven; cast iron top plate; stainless steel material; BTU per hour: 15,000 - 64,000		
6	Dehydrator	single chamber, 15 trays, stainless steel, 220 V/ 60 Hz		
7	Exhaust Hood	60 cm width; heavy duty; stainless steel; wall mounted		
8	Smoke House	1 door, 220 V/ 60 Hz, single phase, Dimension: 0.440 m³ - 1.62 m³		

Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:

Control type - Dialog, Conversational/ Intuitive		
Programming Sys. /EIA/ ISO PROGRAMMING		
Working Memory - 2 mb up to 1 gb		
Minimum features and accessories included:		
Fully enclosed machining center		
USB port		
ethernet interface		
Automatic tool length measuring device/		
Touch probe		
 Automatic voltage regulator 30KVA, 3 Phase, 		
220V		
Air Compressor		
Specified machining tool list:		
• 1 pc Drill Chuck		
• 1 pc Drill Chuck arbor BT 40		
• 5 pcs Quick Change Milling (Collet) Chuck		
• 10 pc pull studs		
• 15 pc Collets (3-25 mm)		
• 1 pc Face mill arbor		
• 20 pcs Carbide Inserts		
• 1 set HSS End mills		
• 1 set HSS Drill Bits		
• 1 pc BT 40 Spindle taper cleaner		
• 1 pc mill vise		
• Coolant (pail) - 1 pc.		
With operations/ maintenance manual in English Language		
English Language		
• 1 year warranty for spare parts and 2 years in		
support serviceIncludes Machine Commissioning and		
Includes Machine Commissioning and Training		



Training

		<u>, — </u>		 ,
			General Specifications: Horizontal Lathe	
			Capacity	
			Max swing over bed: 380 mm - 560 mm	
			Max swing over gap: 600 mm - 780 mm	
- [• Max swing over cross-slide: 200 mm - 380	
ĺ			mm	
			Distance between centers: 1000 mm	
1			Bed width: 220 mm - 350 mm	,
			Cross slide travel: 230 mm - 300 mm	
			Main Spindle	
			• Spindle bore: Ф50 mm - Ф80 mm	
			Max Spindle speed: more than 1600 rpm	
ĺ			Tailstock	
			Tailstock spindle taper: MT 3, 4 or 5	
			Threading	
			Metric pitch threads: 0.2-14 mm/ pitch	
	_	Lathe Machine	Inch pitch threads: 2-75 TPI	
	2	(Conventional)	Feeding Range	
-		, , , , , , , , , , , , , , , , , , ,	Range of longitudinal feeds: 0.04-1 mm/rev	
			Range of cross feeds: 0.02-1.25 mm /rev	
-			Motor	
-			Power Supply: 220 volts 60hz	
			Phase: 3 phase	
-			Main spindle motor: 5 - 10 hp	
			Coolant pump motor: 1/8 hp	
			Accessories included:	
			• 1 pc - 3 Jaw chuck, 4 Jaw chuck , Face plate	
1			• 1 pc - live center , dead center	
			1 pc - Steady rest, follower rest	
			1 set - lathe dog (straight and bend tail)	
			• 1 set tool holder (left hand, right hand, neutral	
			& threading tool)	
			• 1 pc - drill chuck with arbor	

		 quick change tool post with Operations/ maintenance manual in English With Digital Read Out with sleeve for MT 4 and MT 5 Machines 1 year warranty for spare parts and 2 years in support service Includes Machine Commissioning and Training
		General Specifications: Vertical Turret Type Milling Machine
		Table Size: Length 1270 mm x Width 254 mm
	Milling Machine (Conventional)	Longitudinal Travel (x): 800 mm - 950 mm
		• Cross Travel (y): 305 mm - 410 mm
		Vertical Travel (Knee) (z): 305 mm - 410 mm
		Max work piece weight: 300 - 400 kg
		Spindle Motor: 2 hp to 3 hp
3		Maximum Spindle Speed: 2500 rpm -5500 rpm
		Electricals: 220 V/ 3 phase/ 60 Hz
		Accessories included:
		1 set - Dividing Head gear ratio 40:1 w/ sets of
		gear, footstock, 3 indexing plates, sector arm
		• 2 sets of module cutter (mod 1.5, 2.0, 2.5)
		Spindle Arbor/ Milling Arbor
,	, , , , , , , , , , , , , , , , , , , ,	with operations/ maintenance manual in

	English Language	
	 1 year warranty for spare parts and 2 years in 	
	support service	
	 Includes Machine Commissioning and Training 	

Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:

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TESDA'S SPECIFICATIONS			BIDDER'S SPECIFICATIONS	
۱o.	Item	Specifications	Item/Brand/Model	Specifications
1	SMAW/ GTAW Weldir Machine	 Input power: voltage/ Phase/ Hertz: 208 -230/ 1/ 50/ 60 Output range: 40-300A AC/DC Duty cycle: at least 40 - 60% Output Current Voltage (OCV): 50 - 80 V With Built - in High Frequency with Maintenance / Operation Manual in English Language Complete accessories: Electrode holder, heavy duty Heavy duty ground clamp TIG torch assembly Gas regulator with remote control (foot/hand) Power cables and welding cable 		
2	GMAW/ FCAW Weldir Machine	 Process: GMAW, Flux Cored AW Max. Open Current Voltage (OCV): 38 - 70 V Wire speed: 50 - 700 IPM Wire size range: 0.8 - 1.2mm Complete accessories: MIG gun, Heavy duty ground clamp and cable 230V input power 		

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3	Plasma Cutter	 Maximum Cutting Capacity: 22.2 mm (7/ 8") Input Power: 208-575 V/ 1/ 3 P/ 50/ 60Hz Rated output: 96-104V @ 40-50% duty cycle Input Current: 37.8 - 60 A Output Range: 20 - 60 A Complete accessories: Hand torch, Power cables, Air regulator and pressure gauge, 20 feet cable, Work clamp and cable Air compressor: at least 3 h, 1 phase/ or Delivery range 70 - 115 psi (pressure capacity), with Maintenance / Operation Manual in English Language 	
4	Stationary Electrode Oven	For Stick Electrode and MIG Wires Capacity: up to 300 lbs (136 kg) Electrode length: up to 18 in. (450 mm) Temperature range: 100 - 550 °F (38-288°C) adjustable (w/ thermostatic control and thermometer) Input Voltage AC: 220 V/ 60 Hz Heating Element: 1000 W with Maintenance / Operation Manual in English Language	
5	Ultrasonic Flaw Detector	 Portable Phased Array Instrument for NDT (Non-Destructive Testing) 16PA Phased Array Probe, 4 MHz, 16 element, 0.5 mm pitch Phased array Wedges, ranging 35-75 degrees shear capacities for 0012 & 013 probes/ Phased array wedges transducers for different degrees (45°, 60°, 70°, etc.) Keypad: English, International, Language: English 	

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		 Battery type: Lithium-ion rechargeable standard, (Lithium-ion / alkaline) including Battery charger: 220 VAC, 50 - 60 Hz Operation manual Standard Software's, CD, Removable SD Memory Card, SD adaptors to USB Couplant-glycerin Display Type: Full VGA multicolored/transflective color LCD, 60 Hz update rate With complete accessories to operate including its featured functions, Angle beam transducers, pulser, adaptors, calibration block and others. Transducer connections: BNC or Number 1 LEMO 	
6	Oxy-acetylene Welding/ Cutting Outfit	Complete accessories: Oxygen and Acetylene Regulators blow pipe torch handle cutting and welding tips cutting torch or equal pressure cutting attachment for acetylene and alternative fuels, twin hose tip cleaner, spanner and flint lighter	
7	Lathe Machine (Conventional)	Lathe Machine, General Specifications: Horizontal Lathe • Max swing over bed - 350 - 560 mm • Max swing over gap - 500 - 780 mm • Max swing over cross-slide - 150 - 380 mm • Distance between centers -500 - 1000 mm • Bed width - 150 - 350 mm • Cross slide travel - 150 - 300 mm Main Spindle	

• Spindle bore - Ф30 - 80 mm	
Spindle speeds - 0-5000 rpm 18 steps	
Tailstock	
Tailstock spindle diameter - 40 - 75 mm	
Tailstock spindle taper - MT 3 or MT 4	
Threading	
Metric pitch threads - 0.2 -14.0 mm / pitch"	
Inch pitch threads - 2-75 TPI	
Feeding Range	
 Range of longitudinal feeds - 0.04 -1 mm/ rev 	
 Range of cross feeds - 0.02-1.25 mm/ rev 	
Motor	
Power Supply – 220 volts, 60hz	
Phase – 1 or 3 phase	
Main spindle motor - 3 - 7.5 hp	
Coolant pump motor125 HP (1/8" hp)	
Accessories included:	
• 1 pc - 3 Jaw chuck with internal and external	
jaws	
• 1 pc - 4 Jaw chuck,	
• 1 pc - Face plate,	
• 1 pc - live center,	
• 1 pc - dead center,	
• 1 pc - Steady rest,	
• 1 pc - follower rest,	
• 1 set - lathe dog (straight and bend tail) ,	
• 1 set tool holder (straight, left, right),	
• 1 pc - drill chuck with arbor,	
• quick change tool post,	
• with Operations manual (English)	
• 1 year warranty for spare parts and 2 years in	
support service	

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8	Pencil Grinder	High speed die grinder Capacity: Collet- 6 mm to 8 mm 220 - 240 VAC No load speed: 7,000 - 28,000 rpm Continuous rating input: 400 - 750 W
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Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:



		onditioning Servicing NC III DA'S SPECIFICATIONS	BIDDER'S SPECIFICATIONS	
No.	No. Item Specifications		Item/Brand/Model	Specifications
1	Variable Refrigerant Frequency Air Conditioning Unit with Central Controller	8 HP capacity outdoor unit with 4 fan coil unit (FCU) 1 HP wall mounted 2 HP ceiling suspended cassette type (FCU) 220 volts 1 phase 60 hz		
2	Inverter Type Air Conditioning Unit (Cassette)	PACU cassette type A/C unit; 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3.0 tons		
3	Inverter Type Air Conditioning Unit (Ceiling Concealed)	Package type A/C unit, ceiling concealed ducted inverter split type, 5.0 kw, 220 v0lts, 60 hz, 2 hp capacity		
4	Inverter Type Air Conditioning Unit (Floor Mounted)	Split type A/C unit, floor mounted, 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3 TR		
5	Inverter Type Air Conditioning Unit (Wall Mounted)	Split type A/C unit, wall mounted, 220 volts, 60 hz, 1 phase, cooling capacity, 10 kw, 3 hp capacity		
6	Oxy-acetylene with Complete Accessories	With complete accessories, cuts up to 15 mm, welds up to 5 mm with torch handle, equal pressure cutting attachment for acetylene and alternative fuels, mixer, 3 welding tips, cutting tips, single stage cylinder regulator for oxygen, safety goggle, igniter and flints, 10 way tank wrench, 6 m twin hose, brass handle with large flow capacity for heavy duty applications		

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7	Welding Helmet (Auto-Darkening)	Auto darkening lense, wide vision, variable shade from DIN 9-13	
8	Portable Arc Welding Machine	Inverter type portable welding machine, ground clamp, power cables and welding cables, input power 220 V, output current: 200 Ampere	
9	Leak Detector	Intended for 404A, 410A, digital type heated diode sensor with mechanical pump, sensitivity level 2, sensitivity per year 0.25 ounce/ year, CFC's, HCHF and HFC, sensor 2D alkaline batteries spare, filter and hard plastic carrying case, unit cases heated diode sensor technology automatically compensate for changing background, contamination	
10	Anemometer SE	Digital type, measuring the current wind speed with minimum and average values, temperature display and percieve temperature (wind chill), wind strength can be set as meter, m/s, km/h, mph, knots	
11	Refrigerant Recovery Machine (Hydrocarbons)	220-240 VAC, 60hz, with recovery tank of 50 lbs capacity, direct liquid of 3.03 lbs per minute, direct vapor of 0.03 lb per minute, push/pull of 12.22 lbs per minute	
12	Vacuum Pump	Two-stage, 220 VAC, 60 hz, single phase, 5.0 CFM capacity	

13	Portable High Pressure Washer	220 volts, 60 hz, 1 hp capacity, single phase
14	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase
15	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase

Name of Bidder:	Name and Signature of Authorized Representative:	
	Position/Designation:	
	Date:	



	TE	SDA'S SPECIFICATIONS	BIDDER'S SPECIFICATIONS	
No.	Item	Item Specifications		Specifications
1	Forklift Truck (Counter Balance)	Not less than 3000 mm max. lifting height capacity Lifting weight/ rated capacity- minimum 1 ton Battery Charger		
2	Forklift (Reach Truck)	Not less than 3000 mm max. lifting height capacity Lifting weight/ rated capacity- minimum 1 ton Battery Charger		
3	Trans-Stacker/ Transporter	Vertical Lift Hydraulic Dimension not lesser than 57" x 27" x 62" Not less than 1000 lbs capacity		
4	JIB Crane	1 ton capacity mobile 220 VAC, 3 phase		
5	Hand Hoist (Chain Block)	2 tons capacity heavy duty		
6	Shelving Unit	Not less than 36" x 30" x 85", 2 Layer Steel Heavy duty		

7	Trolley, Platform Type with Handle	Steel Handle Not less than 710 x 455 mm Up to 150 kg capacity With heavy duty wheels	
8	Pallet Truck	Hand Driven Steel Handle Hydraulic Not less than 2 tons capacity	
9	Drum Truck Trolley/ Lifter	Self-Standing with Kick Stand 180 kg capacity Adjustable drum truck allows for transporting Tipping Not less than 1520 mm x 600 mm x 1500 mm	
10	Step Ladder, Double Sided	Not less than 8 feet Double sided	

Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:



Lot 11. Mechatronics NC IV					
	TESDA	N'S SPECIFICATIONS	BIDDER'S SPECIFICATIONS		
No.	Item	Specifications	Item/Brand/Model	Specifications	
1	Automatic Production Line Trainer	FEATURES: Automatic Production Line Trainer (APL) contains comprehensive training programs for each unit station, automatic production line, pneumatic system, frequency inverter, PLC high-speed pulse and counter, servo motor, analog, network technology, human-machine interface, and configuration technology 5 lines composed of: *Conveying unit/ Processing unit/ Feed unit/ Sorting unit/ Assembly unit Power supply: 3 phase, 5 line AC, 380 V, ±10%, 60 Hz Rack: Aluminum and Steel Includes Service Manual and warranty Workbooks and Software			
2	MPS (Modular Product System)	Input Power: AC 220 V, 60 Hz Output Power: DC 24 V, 3A Interface: 1) Digital Input/ Output (default); 2) Fieldbus: Profibus Includes Sub-systems 1. Distribution - separating parts from stack and feeding into a process 2. Sorting - Sorts parts by color and moves them via an electrical conveyor belt 3. Processing - Electrical rotary table models common industrial processes 4. Separator - The separating station permits			



		the creation of flexible assembly lines 5. Handling - Modern pick and place application that moves part from pick-up point to one of several drop-off locations Includes Service Manual and warranty, and Workbooks and Software	
3	Human Machine Interface Package	HMI Designer studio software - CD 24 voltage supply can be looped through with key panel Number of keys- 8, LED colors- red, yellow, green, blue, white Digital input -8 (2 additional fail safe inputs with KP8F) Digital output- 8 Includes Service Manual and warranty, and Workbooks and Software	

~	Name of Bidder:	Name and Signature of Authorized Representative:
		Position/Designation:
- W		Date:

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	TE	SDA'S SPECIFICATIONS	BIDDER'S SPEC	CIFICATIONS
No.	Item	Specifications	Item/Brand/Model	Specifications
1	Espresso Machine	Dual- boiler technology and saturated brewing groups, Steam Boiler Capacity: 7 Liters, Coffee Boiler Capacity: 3.4 Liters, Semi-Automatic, Stainless steel boilers and brewing groups, Omni-directional stainless steel steam wands, Solid stainless steel housing and base, Sight glass for water level monitoring of steam boiler, 220 V, 60 Hz		
2	Coffee Grinder	Wide grinding range, from espresso fine to a coarse drip, Revolutionary pass- through grind mechanism with 28 - 270 grind settings: 25 - 30 stepped macro settings plus a step less micro adjustment range, Convertible grinding forksgrind hands- free directly into a porta filter, or convert to grind into the included bin or your favorite dripper, Time- based grinding with three customizable presets, Power: 220 V, 60 Hz, 290 watts		
3	Coffee Maker	Dimensions (W x D x H cm): 22 x 26 x 28 cm Removable water reservoir: 1.4 L Pump pressure: 20 Bar Filter holder for ground coffee, pods and capsule Rapid Espresso Cappuccino System: Cup warmer Removable drip tray, 220 V, 60 Hz		
4	Juicer	1500 watts locked power juicer, 5.34 kg, juice jug capacity: 1.5 liters, pulp collector capacity: 3 liters, 220 V, 60 Hz		

5	Dinner Plates	10 inches diameter plate, ceramic/ porcelain, white in color, and round in shape	
6	Appetizer Plate	6 inches diameter; ceramic/ porcelain, white in color and round in shape	
7	Show/ Service Plates	13 inches diameter, ceramic/ porcelain, white in color and round in shape	
8	Salad Plates	8 inches diameter, ceramic/ porcelain, white in color and round in shape	
9	Fish Plates	9 inches diameter, ceramic/ porcelain type, white in color and round in shape	
10	Dessert Plates	8 inches diameter, ceramic/ porcelain, white in color and round in shape	
11	Side Plates or Bread Plates	6 inches diameter, ceramic/ porcelain, white in color, and round in shape	
12	Soup Plate/ Bowl	3 inches deep, ceramic/ porcelain, white in color and round in shape	
13	Bouillon Cups & Saucers	Ceramic/ porcelain, Cup and Saucer - 5 inches diameter, white in color	
14	Teacups and Saucers	Ceramic/ porcelain; Set of cup and saucer cup - 10 oz capacity; Saucer - 4 cm diameter; white in color	
15	Tea Pots	Stainless steel micromesh filter; 42-ounce tea pot and infuser	



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16	Demitasse Set	Set of cup and saucer with teaspoon; ceramic/porcelain, 3-1/3 oz cup capacity, 4 inches long tsp, white in color	
17	Dinner Spoon	Measures 8" L 18/8 stainless steel construction Dishwasher safe	
18	Dinner Forks	Measures 8" L 18/8 stainless steel construction Dishwasher safe	
19	Dinner Knives	Measures 9-1/2" L 18/8 stainless steel construction Dishwasher safe	
20	Salad Forks	Stainless steel Length: 22.5 cm Thickness: 8 mm	
21	Salad Spoon	Measures: 6-3/4" L 18/8 stainless steel construction Dishwasher safe	
22	Salad Knives	Stainless steel Stain resistant, dishwasher safe, 5 - 7" long	
23	Fish Knives	Stainless steel fish knives Length: 22.5 cm Thickness: 8 mm Weight: 86 g	

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Fish Forks	Stainless steel fish fork Length: 21.5 cm Thickness: 8 mm Weight: 86 g
Dessert Spoons	Stainless steel; stain resistant, durable, 4" long
Dessert Forks	Stainless steel; stain resistant, durable, 6" long
Cocktail Forks	Stainless steel, stain resistant, durable, 4" long
Teaspoon	Measures: 6 - 3/4" L 18/8 stainless steel construction Dishwasher safe
Steak Knives	Stainless steel, stain resistant, durable, 6" long
Service Forks	Stainless steel, stain resistant, durable, 7" long
Service Spoons	Stainless steel, stain resistant, durable, 7" long
Steak Forks	Stainless steel, stain resistant, durable, 6" long
Oyster Forks	Stainless steel, stain resistant, measure 5 3/8" long
Butter Knives	Stainless steel, stain resistant, durable, 16 cm
Red Wine Glasses	Stemmed glass; 12 3/8 oz. capacity, crystal glass
White Wine Glasses	Stemmed glass, 9 7/8 oz capacity, crystal glass
Water Goblets	Stemmed glass, 14 3/4 oz capacity, crystal glass
Champagne Flute	Stemmed glass, 190 ml capacity, crystal glass
	Dessert Spoons Dessert Forks Cocktail Forks Teaspoon Steak Knives Service Forks Service Spoons Steak Forks Oyster Forks Butter Knives Red Wine Glasses White Wine Glasses Water Goblets



39	Pilsner Glasses/ Ice Tea Glasses	Crystal glass; Dimension: 8" H x 3" W x 3" D; Capacity: 16 oz	
40	Wine Decanter	Capacity: 200 ml, Material: High quality Glass, Unique and elegant shape, easy to pour	
41	Waiter's Friend	Stainless steel, all-in-one corkscrew, bottle opener and foil cutter	
42	Salt and Pepper Shakers	Stainless Steel Salt and Pepper Grinder	
43	Rectangular Trays	Non-slip plastic tray; heavy duty construction for commercial use; rubber liner prevents slipping; stain and odor resistant	
44	Round (Bar) Trays	Non-slip plastic tray; Heavy duty construction for commercial use; Rubber liner prevents slipping; stain and odor resistant	
45	Soup Tureen	Microwave and dishwasher safe; white porcelain; covered soup tureen with ladle	
46	Peppermill	Stainless steel/ wood; 5.5 inch long	
47	Sauce Ladles	Stainless steel with end hook for hanging; heavy duty; Size: 20 cm x 4 cm	
48	Cake Servers	Stainless steel; stain resistant, durable, 5 1/2" long	
49	Ice Buckets with Tongs	Stainless Steel, 3 liters/ 0.8 gallon	
50	Boning Knives	Stainless Steel; 5 inch long; with black handle	

51	All-Purpose Knives	Stainless Steel; 8 inch chef knife; thickness: 3.0 mm; knife length: 13.5 inch; blade length: 8 inch	
52	Chopping Boards	Rubberized/ polyethylene, medium size, white in color	
53	Non-Stick Round (Crepe) Pan	Aluminum fry pan; non-stick coating fry pan; diameter: 16*4.0 cm - 20*4.0 cm, 26*4.8 cm; shape: round	
54	Turners (For Non-Stick Pans)	Silicone slot turner of kitchen; size: 342*82*48 mm	
55	Reach-in Chiller	Heavy duty; two door reach-in, stainless steel body; 500 liters capacity; 220 V/ 60 Hz; single phase	
56	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	

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57	Water Dispenser (Hot & Cold Dispenser)	Cooling Capacity: 2 L/h Heating Capacity: 5 L/h Cold Water Temperature: 5 - 10°C Hot Water Temperature: 85 - 95°C Cooling Power: 90 W Heating Power: 550 W Compressor brand: Asbeila S30G Water Faucet Connection: Fixed Tank Material: Hot & Cold Tank Material Hot & Cold Tank Structure: Welding or belt Left & Right Side Panel Thickness: 0.5 mm Inner Silicon tube Level: Food Grade 220 V 60 Hz	
58	Stove with Oven	Heavy duty; four burner gas stove with oven; cast iron top plate; stainless steel material; BTU per hour: 15,000 - 64,000	
59	Washing Machine	Top loaded, 10 kgs, 220 volts, 60 Hz, single phase, spin dry	
60	Mop Bucket with Wringer	Plastic, 32 liters capacity	
61	Ice Crusher	220 V/ 300 watts/ 60 Hz, scrapping block ice into flake ice, micro switch, container volume: 1000 ml, 304 stainless steel blade	
62	Stand Mixer	3.5 liter capacity mixer, 220 V/ 700 watts, 4 speed electronic pulse, stainless steel basket	



63	Hand Mixer	140 watts mixer, 6 speed operation, free standing base, 220 V, 60 Hz	
64	Food Processor	Heavy duty, 5 liters, stainless steel bowl, 220 V/ 60 Hz, 1 hp	
65	Steam Iron	Ceramic sole plate, output: 35 g/min, steam boost: 100 g, 2100 watts, water tank capacity: 270 ml, 220 V, 60 Hz	
66	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase	
67	Dishwashing Machine	Hood type 220 VAC/ 1 phase 800 - 1600 plates capacity per hour includes tray/ racks	

Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:

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	TESDA	A'S SPECIFICATIONS	BIDDER'S SPECIFICATIONS	
No.	Item	Specifications	Item/Brand/Model	Specifications
1	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase		
2	Reach-in Chiller	Heavy duty; two door reach-in, stainless steel body; 500 liters capacity; 220 V/ 60 Hz; single phase		
3	Stove with Oven	Heavy duty; four burner gas stove with oven; cast iron top plate; stainless steel material; BTU per hour: 15,000 - 64,000		
4	Stock Pot	Heavy duty; Four burner stove; cast iron top plate; stainless steel material; countertop		
5	Deep Fat Fryer	Heavy duty; electrical twin tank fryer; stainless steel material; countertop; capacity 10 liters; 220 V/ 60 Hz; single phase; power: 2 Kw - 17 Kw		
6	Commercial Microwave Oven	Heavy duty; stainless steel body; capacity: 17 liters; 220 V/ 20 Hz; single phase; power: 1 kW-3 kW		
7	Dishwashing Machine	Hood type 220 VAC/ 1 phase 800 - 1600 plates capacity per hour includes tray/ racks		

8	Blender Machine	Heavy duty; stainless steel blade; capacity: 2 liters; heavy duty; 220 V/ 60 Hz/ 1 phase; power: 1.1 kW - 2.7 kW	
9	Pressure Cooker	Heavy duty; stainless steel; capacity: 9 liters	
10	Meat Slicer	Aluminum and stainless steel body material; stainless steel blade; adjustable thickness slice; 220 V/ 60 Hz; single phase	
11	Meat Grinder	Aluminum and stainless steel body material; stainless steel blade; capacity: 5 - 10 lbs per minute; 220 V/ 60 Hz; single phase; power: 0.735 kW - 1.3 kW	
12	Salamander Griller	Twin basket; countertop; stainless steel and chrome material; voltage/ frequency: 220 V/ 60 Hz; single phase	
13	Exhaust Hood	60 cm width; heavy duty; stainless steel; wall mounted	

- %	Name of Bidder:	Name and Signature of Authorized Representative:
		Position/Designation:
3		Date:



	TESDA'S SPECIFICATIONS BIDDER'S SPECIFICATIONS				
lo.	Item	Specifications	Item/Brand/Model	Specifications	
1	Laptop	i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4 512GB SSD ·4GB Dedicated Video Card 15.6" Display Mouse Wired and wireless Ethernet connection At least two (2) USB Port Windows 10 or latest OS Microsoft Office (Full Installation) Educational License			
2	Inkjet Printer	With Print, Scan, Copy, Fax features Tank type ink system Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black) Can scan documents over network Environment Photo Quality WiFi Connectivity			
3	Wireless Router	1 WAN and 4 LAN ports 802.11g, 802.11n USB port for shared printing/storage English firmware/ User interface Supports home and cloud application			



4	Smart TV	65 inch High Definition (3,840 × 2,160) SMART Features Ethernet and Wireless Connectivity USB, HDMI and A/V port with wall mount provision Multi-system compatible	
5	Tablet	128 GB Storage WiFi With installed MS Office Application	
6	Network Attached Storage	8 TB At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface With file and media server Windows and MAC Compatible	
7	Multimedia Projector	Projection system LCD/ DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless	
8	CCTV System	8 Channel 1080p Digital Video Recorder; Video Format NTSC;	



Video Quality: 1080p (2.1 Megapixel); Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller			Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X RJ45 Operating	
Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m)			Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F	
	9	Drone	Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m)	

Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km)

Battery: 6000 mAh liPo 2S Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display

Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones

Voltage: 15.2 V Battery Type: liPo 4S

Vision System: Forward Vision System, Backward Vision System, Downward Vision System

Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground

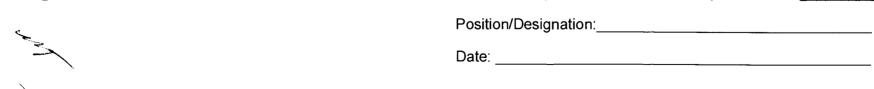
Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m)

Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M

Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m

ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)

		Mechanical Shutter Speed: 8 - 1/2000 s Electronic Shutter Speed: 8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720	
		Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure	
		Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/ H.264; HEVC/ H.265)	
		Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required	
		Charger Voltage: 17.4 V	
0	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digi Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in wi-fi with NFC	



	TE	SDA'S SPECIFICATIONS	BIDDER'S SPEC	CIFICATIONS
lo.	Item	Specifications	Item/Brand/Model	Specifications
1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity		
2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity		
3	Test Tubes	Glass material Large 15 ml capacity		
4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving		
5	Laboratory Tong	Stainless steel 8 3/4" long		
6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses		

7	Beaker	Durable glass material 250 m Borosilicate	
8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	
9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	
10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	
11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	
12	Watch Glass	100 mm Selected quality glass, polished ground edges	
13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	

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14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment. Calibrated in newtons	
15	Vernier Caliper	Science ware Digi-MAX Double scales Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight	
16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	

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17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror provides illumination to make details of specimen slides easier to see Basic condenser concentrates light onto the specimen	
		Adjustable arm (0° to 60°) for comfortable viewing	
18	Thermometer	Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C With permanently fused markings, packed in protective sleeving	
19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1- 14 pH 1-14 color chart in each pack, full range 1- 14 80 strips per box	
20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	



21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	
22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	
23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	

Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:



LOt	16. Surveying Equipment			
TESDA'S SPECIFICATIONS			TESDA'S SPECIFICATIONS BIDDER'S SPECIFICATIONS	
No.	Item	Specifications	Item/Brand/Model	Specifications
1	Total Station Surveying Equipment	3.5" Large Dual Touch-screen HD Display Android Smartphone as data collector EDM Trigger, automatically measurement key 500 Meters long range reflector less 200,000.00 points memory data upload/ download Complete surveying/ construction/ road programs on board Electronic Bubble; direct data plotting on main screen Alphanumeric Keys for easy and quick data input MS Windows Compatible; GPS data ready Data Text, DXF, CSV/ AutoCAD ready Telescope - Length: 125 - 152 mm - Magnification: 30x - Image: Erect - Field of View: 1°20' - 1°30' - Resolve Power: 3" - Min. Focus Distance: 1.3 - 1.7 m Measurement Range: 1.5 to 5,000 meters		

Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:

Lot 1	Lot 17. Air Conditioning Unit							
	TES	DA'S SPECIFICATIONS	BIDDER'S SPEC	IFICATIONS				
No.	Item	Specifications	Item/Brand/Model	Specifications				
1	Air Conditioning Unit	Inverter type air conditioning unit						
		Split type AC unit, floor mounted, 4 hp, 220 volts/ 60 Hz/ 3 phase, cooling capacity: 10 kw						

Name of Bidder:	Name and Signature of Authorized Representative:
	Position/Designation:
	Date:

	Pro		Training Tools and Equi AC Qualification of the	•		_	er Level		
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
1									
	1	Farm Tractor	4 wheel drive with the following specifications: Engine: direct injection, vertical, water- cooled 4 cycle diesel No. of cylinder: 3 – 4 Engine gross power: 35 - 50 hp Rated revolution: 2200 - 2700 rpm Hydraulic system: position control with attachment of any of the following: disc plow, disc harrow, rotary tiller, & trailer	1	unit	1			
	2	Rice Combine Harvester	Engine: 50-70 hp water-cooled diesel engine Travelling speed: 0-0.97 m/sec (low), 0-1.91 m/sec (high) Cutting width: 2,000 - 3,000 mm Threshing system: axial-flow type Harvesting capacity: 0.1 - 0.8 ha/hr	1	unit	1			
	3	Corn Sheller	Capacity: 1-5 tons per hour (@50 kg/cavan) Shelling Recovery: 95 - 99%	4	unit	1			

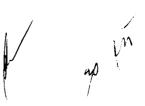


	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			Power Requirement : 7 - 14 hp diesel engine						
	4	Double Pass Rice Mill	300 - 1500 kg/hr (10 - 30 cavan/ hr)	1	unit	1			
	5	Grain Moisture Meter	Measuring Range: Corn, 8-36% MC Measuring Range: Palay, 9-40% MC Accuracy: ±0.2 - 0.5 % MC (10-20%)	4	unit	1			
	6	Hand Tractor	Power source: AC/DC (battery-operated) Power requirement: 6 - 10 hp Overall length: 1500 - 2700 mm Overall width: 750 - 1200 mm Overall height: 800 - 1150 mm With attachments of any of the following: disc plow, harrow, and cage wheel	4	unit	1			
	7	Mechanical Rice Transplanter	Engine: Air-cooled, 4-stroke Power requirement: 1.5 - 4.5 kW Planting row: 4 rows Row distance: 30 cm Planting capacity: 1 - 1.5 ha/day	4	unit	1			



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	Pro		Training Tools and Equi AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	8	PH Meter	Range: 0 - 14 pH Moisture: 0 - 10% (0- 100%) Resolution: 0.01 - 0.2 pH Type: Portable/ pen-type	4	unit	1	
	9	Single Cylinder Diesel Engine	Water-cooled, horizontal, single-cylinder, 4-stroke diesel engine horsepower: 7 - 14 hp	4	unit	1	
	10	Thresher	Construction: all steel Power requirement: 10 - 14 hp	4	unit	1	
	11	Water Pump	Engine with water pump Engine: 7 - 10 hp Water pump - NS 100	4	unit	1	
	Sub	⊥ -total, Agricultuı	ral Crops Production NC III	l	i		8,820,414.096
2		cultural Mechaniz					
	1	Mechanical Dryer Recirculating Type	Capacity (Kg): 6.000 to 10,000 Loading Rate: 25 - 75 min Unloading Rate: 15 - 75 min Drying Rate: At least 0.5% - 3% per hour	1	unit	1	
	2	Walker Behind Vibrator Roller Compactor	Double drum Operating Weight 550 - 800 kgs Engine: Diesel or Gasoline Engine at 6.0 to 18 hp	1	unit	1	



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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			Travel Speed: 2 km/hr - 7.5 km/hr. Centrifugal Force: 15 KN to 25 KN.						
	3	Rice Combine Harvester	At least 70 Horse Power Diesel Engine; Speed harvesting at 1.85 meters/second 2.00 to 3.00 meters cutting width	1	unit	1			
	4	Agricultural/ Farm Tractor Four Wheel Drive (90 -120 Hp) with Three (3) Point Hitch Linkage	Engine Power: 90 -120 hp with Rated Engine Speed of at least 2100 Rev/Min Number of Engine Cylinder: 4 - 6	1	unit	1			
	5	Rotavator/ Rotary Tiller - Four (4) Wheel Tractor Mounted	Mounted within 50 - 100 hp Agricultural/ Farm Tractor Working Width of 2000 mm and at least 44 blades working at 2100 rpm engine speed	1	unit	1			
	6	Four Bottoms Disc Plough, Four (4) Wheel Drive Tractor Mounted	Mounted to the Agricultural Tractor Power with 60 to 120 hp Tractor Working Width 1000 - 1600 mm Number of Disk: 4 Disk Diameter: 500 - 700 mm	1	unit	1			

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	Pro		Training Tools and Equ AC Qualification of the	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	7	Engine Operated Chainsaw	Engine: Gasoline type Power Output: at least 5 hp (3.7 kw/ 4.8 bhp) Bar Length at least 20 inches	1	unit	1	
	Sub-	total, Agricultural					11,620,864.992
3		culture	······································			<u> </u>	
	1	Dissolve Oxygen Meter	Display Type: LCD DO Measurement: 0 - 45 mg/L Temperature Compensation: -5 to 50°C	4	unit	4	
	2	Salinity Refractometer	Type: Analog Specific Gravity (SG): 1.000 - 1.070 Measurement Range: 0 to 100 %	5	unit	4	
	3	Soil PH Meter	Meter Type: Portable pH Range: 0 - 14 pH pH Resolution: - ± 0.2 pH Humidity Range: 0 to 8%	5	unit	4	
	4	Water Thermometer	Meter Type: Digital Display Type: LCD Measuring Range: -200 to 1,370°C Resolution: 0.1°C, 1°C	4	unit	4	
	5	Digital Water PH Meter	Meter Type: Digital Display Type: LCD Measurement Range: -2 to 16 pH Resolution: 0.01 Accuracy: ± 0.1	4	unit	4	



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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			Temperature Compensation: -10 to 120°C						
	6	Secchi Disk	Type: Portable Size: 20 cm diameter with black and white sections	5	unit	4			
	0	Seccni Disk	- with calibrated line marked every half meter up to 20 meter	5	unit	4			
			Test Range Ammonia Nitrogen: 0 - 3 ppm (mg/L)						
		Water Quality Test Kit	Nitrite Nitrogen: 0 - 0.8 ppm (mg/L)						
			pH: 4 – 10						
			Alkalinity: 0 - 4000 ppm (mg/L)	4					
	7		Carbon Dioxide: 0 - 100 ppm (mg/L)		unit	t 4			
			Chloride: 0 - 400 ppm (mg/L)						
			Dissolved Oxygen: 0 - 20 ppm (mg/L) Total Hardness: 0 - 4000 ppm (mg/L)						
			Temperature: -5 - 50°C						
			Meter Type: Portable/ Electrode						
	8	Multi- parameter Meter System	Display Type: LCD Water Proof USB Connectivity	2	unit	4			
i 			pH Range: 0 – 14						



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	Pro		Training Tools and Equi AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			Salinity Range: 0 – 70				
			Dissolved Oxygen Range: 0 to 50 ppm				
			Temperature Range: -5 to 105°C				
			Material: Stainless Steel Sampling Area: 6" x 6"				
	9	Eckman Dredge	Inclusive of the following accessories: Messenger Steel Aircraft Cable (100 meters)	4	unit	4	
	10	Portable Arc Welding Machine	Inverter type portable welding machine, ground clamp, power cables and welding cables input power: 220 V	4	unit	4	
			output current: 200 Ampere				
	11	Water Pump	Engine with water pump Engine: 7 - 10 hp	2	unit	4	
	12	Freezer	Water pump - NS 100 Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	2	unit	4	
	13	Grass Cutter	Engine Type: 4 Stroke Fuel: Gasoline Displacement: 35.8 cc Fuel Tank: 630 ml - 700 ml	4	unit	4	
		total, Aquacultur	e				13,735,532.276
4	Auto	motive Servicing	The state of the s		T		
	1	Parts Washer	Drum: Inside dimensions - 7" H X 28" W X 22" D Fluid Requirements:	2	unit	2	

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	Pro		Training Tools and Equi AC Qualification of the				er Level
LOT NO.	NO.	ITEM	AGENCY SPECS	QTY	UNIT	BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			10 gallons Input: 120 V/ 220VAC (60 Hz) Pump Volume: 210 GPH Output Pressure: 50 PSI Dimensions: 35" X 31" X 23"			OFFICE	
	2	Tire Changer	Open Height: 60" Inside clamping: 13 - 26" Outside clamping: 11 - 24" Voltage: 220 V Motor Power: 0.75 kw/ 1.1 kw HP: 1 Operating Pressure: 90 psi	2	unit	2	
	3	Roller Cab/ Trolley Tool Set	5 Drawers Roller Cab with the following tool set: 1 set Screwdriver L-shape Wrench 1 set Double-open-end wrench 1 set 45 deg. Double wrench set 1 set Ratcheting combination wrench set 1 set Adjustable wrench set	2	unit	2	

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	Pro		Training Tools and Equipole AC Qualification of the	•		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			1 set Standard pliers set 1 set Circlip plier set 1 set Impact socket set 1 set 3/8" Square drive socket set				
			1 set 1/4" Square drive socket set				
			1 set 1/2" Square drive socket set				
	4	Lifter Wheel Aligner	Design: Scissor Lifting Capacity: 3500 - 5000 kg	1	unit	2	
			Lifting Height: 1700mm Motor: 220V/ 50 Hz				
	5	Electronic Battery Tester	Battery Nominal Voltage: 12 V CCA: 125 A to 1400 A SAE/EN: 200 A to 900 A DIN/ IEC: 120 to 550 3-4 digit LED display	2	unit	2	
	6	Car Wheel Balancer	Power supply: 220 V/ 380 V Measuring time: 8-20 sec. Max. rim diameter: 10" - 24" Balancing speed: 42 - 220 rpm Max. rim width: 1.5" - 20" Max. wheel weight: 65 kg Balancing accuracy: ± 5g	1	unit	2	
	7	Global Diagnostic System (GDS) Professional Scanner	CPU: Dual Core 1 GHz Battery: 3000mh, rechargeable	2	unit	2	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
			Extension Memory Card: 32 G							
			Memory: 512 MB LCD: 7.0 inch							
			LCD Resolution: 1024 x 600							
			Screen: capacitive touch screen							
			Cameras: 2 mega rear and 0.3 mega front							
			Included item:							
			Original vehicle steering wheel							
			Camber caster steering axis inclination							
	8	Front Wheel Alignment	A set of two wheels- turntable with gauges allows for measurement of the degree of turn on both sides of zero (for calculation of toe-in & toe- out)	1	unit	2				
		Trainer	Ball joint inspection gauge for checking upper and lower ball joint condition, out of round tires and wheel run out.							
			Technical Description: 1. The trainer consists of an original front end unit from a typical passenger vehicle. 2. It has been modified for							
			quick adjustment of all							

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	Procu		of Training Tools and Equipole DAC Qualification of the				er Level
LOT NO.	NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			alignment and steering	_			
			geometry points.	<u> </u>			
			3. The unit is mounted on				
			a special stand which facilitates alignment				
			procedures and utilization				
			of test equipment and				
			accessories. The trainer				
			comes with two wheel				
			rims with tires.				
			Additional recommended				
			accessories or options:				
			Original vehicle steering wheel				
			Camber/ caster steering				
			axis inclination gauge				
			A set of two wheel				
			turntables with gauges				
			allows for measuring of				
			the degree of turn on both sides of zero for				
	1 1		calculation of toe-in and				
			toe-out.				
			Ball joint inspection gauge				
			for checking upper and				
			lower ball joint condition,				
			out of round tires and				
			wheel run out.				
			The following topics are				
			covered in the instruction				
			program:				
			General theory on				
			suspension and steering				
			system including different types and geometry				
			principles.				
			Pre-alignment check				

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.OT 10.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			procedures: tire pressure				
			and wear, front wheel bearing play and				
			adjustment, ball joint play				
			inspection, shock				
			absorber wear, steering gear looseness.				
			Caster: determination,				
			adjustment and correction				
			Camber: determination,				
			adjustment and correction (positive and negative)				
			The major components				
			included are: Four rotating wheels with				
			wheel sensors, with digital				
			speed display for each				
			wheel (4 digital displays);				
			4 variable speed electrical				
			drive systems for each				
			wheel to control the				
			individual speed of each wheel, master brake				
		Anti-Lock Braking	cylinder with pedal handle;				
	9	System with	ABS hydraulic actuator	1	unit	2	
		Traction Control	(modulator) unit which is				
		System (TCS)	controlled by the on-board				
			computer system (ECU);				
			Five brake line pressure				
			gauges to show the				
			pressure differentials from				
			the master brake cylinder to the individual wheels;				
			Brake Master Cylinder with Vacuum assists				
			boosts mechanism and				
			brake pedal assembly;				

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Level				-	f Training Tools and Equ DAC Qualification of the		Proci	
TOTAL AGENCY ESTIMATE	NEFI- RIES	1	UNIT	QTY	AGENCY SPECS	ITEM	NO.	LOT NO.
				-	The front of the trainer			
					features precise			
					schematic color graphic			
					illustrations that clearly			
					explain the operation of			
					the entire ABS and			
					braking system;			
					A control panel is provided			
					with an on/ off power			
					switch, power system light			
					(POWER ON), ABS			
					warning light (indicated problems) and an ABS			
					operational light (ABS			
					ON). Also has Volt and			
					Ampere meters to			
		1			measure the DC input			
					power and a brake light to			
					show the operation of the			
					braking system just as on			
					the vehicle;			
					Special Road Conditions			
					and Performance Display Panel;			
					Optional Electronic Fault			
					insertion panel and			
					Electrical Test Point;			
					The trainer comes			
					complete with a training			
					course on ABS operation			
					and servicing including			
					student job sheets and a			
					technical manual on ABS systems;			
				İ	ayatema,			
					A series of options to			
					enhance the trainer such			
					as fault insertion systems,			
				ļ				
					enhance the trainer such			

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs NO. OF TOTAL AGENCY										
LOT ITEM	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
		for power brake boost; Power Source: Note that 30A, 12 Volt DC power source is required from the shop to operate the trainer. If none is available an optional 12 VDC power supply can be ordered to provide this correct power			STANCE OF THE ST					
10	Half-Cut AUV Engine Management System	Electrical control gasoline engine assembly, auto fault Automatic transmission assembly Electrical and electronic devices such as: ECM, TCM, AFS, CKP, CMP, O2 sensor, WTS, control relay and etc. Injector, filter, fuel tank, fuel pump, fuel equipment, DC 12 V/ 60 A, battery 12 volts Ignition coil built -in, spark plug, high voltage resistant cables Cooling system: radiator, overflow tank Exhaust system: Catalytic converter, Emission, Silencer Ignition switch with key Anti-vibration dampers and a urethane wheels Control box, fuel tank,	1	unit	2					

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	Pro		Training Tools and Equ AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			pressure gauge for each singular (1.5MPA*83,2.5 MPA*4)				
			Vacuum pressure gauge (1 MPA) Fuel pressure gauge				
			Battery voltage gauge (30 V)				
			Note Includes : training manual/ module				
	11	Airbag System Trainer	The trainer consist of the following components: Sectioned steering wheel with deployable and reusable airbag Pressure regulator with air filter, solenoid valve and compressed air connection Airbag system circuit diagram with connection and test points Set of two mm test connection leads Inflator unit Rear cable unit	1	unit	2	
			SRS control unit Airbag simulator with graphic and LED display				
			Crash switch simulation system				

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			Dash sensor unit						
			Fuse						
			Power indicator light						
			Ignition switch						
			Technical Parameters:						
			The steering unit with a						
			typical restraint unit.						
			Additional components						
			and controls are mounted						
			on the board to complete						
			the system such as the						
			impact crash sensor and						
			controls. The airbag						
			operation is demonstrated						
			and realistic faults are also						
			introduced to show typical						
			problems in the units.						
			A typical electronic circuit						
			for the SRS system is						
			incorporated into the						
			trainer. This can be used						
			also for realistic fault						
			simulation to show typical						
			problem in the units. After						
			the circuit is connected,						
			the airbag operation is						
			both simulated via LED						
			graphic display that shows						
			the detonation and		1				
			deployment of the air bag						
			system in a simulated						
			crash situation. And also						
			the airbag deploys,						
			synchronized with the LED graphic display unit,						
			through the use of						
			compressed air and a						
			pressure regulator.						
			The trainer comes with a						
			comprehensive manual						
			covering the operation of						
			the trainer.						

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	Pro		Training Tools and Equ DAC Qualification of the	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	12	Gas Tester	The pump consists of a diaphragm with one way valve and thus the pump will only be heard to click when connected to the exhaust CO Function Specification: - Calibrated range: - 0-10% CO (indicates un-calibrated to 20% C) - Accuracy: - +/-0.5% CO typical (throughout the indicated range 0.5% CO to 6.5% CO) Kit Contents: - Gas tester instrument including collector box and pulse pump/ water trap assembly - Metal exhaust probe with retaining springs - Flexible plastic pipes (3 lengths) - Instruction handbooks	2	unit	2	
	13	Recovery Machine	Compact and Lightweight 40% smaller footprint, easy to carry, weighing in at 18 lbs Oil-less compressor Capable of recovering both liquid and vapour Handles almost all refrigerants Works with all common CFC, HFC, HCFC Refrigerants including R- 410A	2	unit	2	

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	Pro		Training Tools and Equ AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			High efficiency cross flow design				
).	Lay-out of fan and condenser is maximized for shorter cycle times				
			High pressure safety shut- off switch				
			Automatically shuts off machine if pressure rises above PSI				
			Easy to operate Rugged case				
			Easy to read gauges, comfortable handle and simple 2 valve controls				
			IEC connector and power cord				
	14	Brake Fluid Exchanger	Remove and replace fluid from most types and models of vehicles' brake system. Also removes trapped air	2	unit	2	
	Sub-	total, Automotiv		<u> </u>			17,232,526.124
5			n and Maintenance NC III				
	1	Electrical Motor Control Learning System	This system teaches operation, installation, applications and troubleshooting of electric relay type motor control systems. The system contains the following items: Workstation Console, set of Control Stations, Hand-held Multimeter, Lead Set, Electric Motor, Motor Mounting Frame, Student	1	unit	2	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs NO. OF TOTAL ACENCY									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
			Instructor's guide.							
			The following stations is							
			supplied:							
			Safety Switch Power							
			Station (1 pc fused 3-							
			phase safety switch, 2							
			pcs. Padlocks, 2 pcs.							
			Safety tags, 4 pcs.							
			Banana jacks, 1 pc Pre-							
			attached power cord 4							
			poles, 5 wires, 1 pc.							
			Lockout/Tag out							
			mechanism, 1 pc. Fault							
			Module with 2 faults, 1 pc.							
			Mounting unit for right							
			angle orientation to							
			trainer), Operator Station							
			(1 pc. Green flush push							
			button (1 N.O., 1 N.C.), 1							
			pc. Black flush push							
			button (1 N.0., 1 N.C.), 1							
			pc. Red mushroom push							
			button (1 N.O., 1 N.C.), 1							
			pc. Three position selector							
			switch (2 N.O.), 1 pc. 24 inch/ 61 cm green							
			stackable banana lead, 1							
			pc 5-way binding post							
			(ground), 1 Fault Module							
			with 5 faults), Indicator							
			Lamp Station (1 pc. Green							
			indicator lamp, 1 pc. Push							
			to test red indicator lamp,							
			1 pc. Yellow indicator							
			lamp, 1 pc. 24 inch/ 61 cm							
			green stackable banana							
			lead, 7 pcs. 5-way binding							
			posts (ground), 1 pc. Fault							
			Module with five (5)							
			faults), Control							
			Transformer Station (1 pc.							
			250VA control transformer							
			with protective cover, 1 pc.							
			Dual fuse block with							

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			protective cover,						
			4 pcs. 1.25 AMP class						
			CC fuses (2 installed, 2						
			loose),						
			1 pc. 24 inch/ 61 cm green						
			stackable banana lead,						
			1 pc. 5-way binding post						
			(ground),			ļ			
			1 pc. Fault Module with						
			three (3) faults), Reversing						
			Contactor Station (2 pcs. 4						
			pole contactors,						
			1 pc Mechanical/ electrical interlock,						
			1 pc. 24 inch/ 61 cm green						
			stackable banana lead, 1						
			pc. 5-way binding post						
			ground,						
			1 pc. Fault Module with 5						
			faults), Overload Relay		•				
			Station (1 pc. A-B						
			overload relay,			}			
			1 pc. 24 inch/ 61 cm green						
			stackable banana lead,						
			1 pc. 5-way binding post						
			(ground),						
			1 pc. Fault Module with 3						
			faults),						
			Manual Motor Starter						
			Station (1 pc. manual						
			starter,						
			1 pc. 24 inch/ 61 cm green						
			stackable banana lead,						
			1 pc. 5-way binding post						
			[ground]),						
			Multifunction Timer Station						
			(1 pc. Multi-function timer						
			with: on delay, off delay timing, interval, single shot						
			timing, interval, single shot timing, repeat cycle timing,						
			pulse timing,						
			1 pc. 24 inch/ 61 cm green						
			stackable banana lead, 1						
			pc. 5-way binding post						
			(ground),						

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
			1 pc. Fault Module with 4								
			faults),	:							
			Drum Switch Station (1 pc.								
			three phase reversing								
			drum switch,								
			1 pc. 24 inch/ 61 cm green								
			stackable banana lead, 1 pc. 5-way binding post								
			(ground),								
			Limit Switch Station (2								
			pcs. Industrial grade limit								
			switch (SPDT),								
			1 pc. 24 inch/ 61 cm green								
			stackable banana lead,								
			1 pc. 5-way binding post								
			(ground),								
			1 pc. Fault Module with 3								
			faults),								
			Control Relay Station (2 pcs.								
			Four pole relays (2 N.O. /								
			2 N.C.),								
			1 pc. 24 inch/ 61 cm green								
			stackable banana lead,								
			1 pc. 5-way binding post								
			(ground),	,							
			1 pc. Fault Module with 5								
			faults),								
			Pressure/ Float Switch								
			Station (1 pc. Pressure								
			switch (SPDT), 1 pc. Float switch (N.O. or								
			N.C.),								
			1 pc. 24 inch/ 61cm green								
			stackable banana lead,								
			1 pc. 5-way binding post								
			(ground),								
			Motor Connection Station								
			(1 pc. Multi-pin industrial								
			motor connector,								
			5 pcs. Red banana jacks,								
			5 pcs. Yellow banana								
			jacks, 1 pc. Fault Module with 3								
			faults),								

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
			Hand-Held Digital Multi-Meter, Stackable Banana Lead Set - 50 Leads, 3 Phase Induction Motor A 1/3 HP, NEMA 56 Frame machine rated at 208- 230/460 Volts, 3 phase, Windings accessible through a multi-pin connector. To include: 1 pc. Motor mounting plate, 1 pc. Single end shaft for safety, 1 pc. Motor winding identification escutcheon, 1 pc. Fault Module with (2) winding faults. Motor Mounting Frame Is heavy duty steel frame construction, with pre- drilled holes for mounting of two motors, prony brake, electric brake, and flywheel. Minimum dimension is 27" W x 12" L x 4" H. The mounting surface is made of .125 in steel plate min, painted and silk-screened.			CIARIES				
			A shaft torque measurement and load device. It consist of a formed steel gauge unit, aluminum brake drum with mounting for 5/8 inch motor shafts, balanced pulley, spring force gauge, load adjustment knob, double set screw locking							

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	Proci	urement o	of Training Tools and Equ DAC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			bottle. Load range is 0 - 3.05 N-m				
			HAND TOOL PACKAGE: FAULT TROUBLESHOOTING SYSTEM (This system consist of a computer-based fault controller, (2) ribbon cables, (1) computer managed software, (1) installation/operation manual. This system is designed and programmed so that students can connect the system to a wide variety of industrial controls training systems to provide a means by which faults can be automatically inserted into a training system to provide student practice in troubleshooting the system.				
			The characteristics of the system should be as follows: Fault Controller (Includes enclosure with 35 fault relays, 10A 115/230 VAC rating, 35 cables, ribbon cable for connection to a host computer, computer-based controller, internal power supply, 120/230 VAC 50/60 Hz.), Student Curriculum				
			(The student curriculum consist of (1) set of 10 Learning Activity Packets 73 skills in electric motor				

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs LOT ITEM NO. ITEM AGENCY SPECS QTY UNIT BENEFI- NO. NO. ITEM AGENCY SPECS QTY UNIT BENEFI- ESTIMATE										
	1	ITEM	control. The topics	QTY	UNIT	BENEFI- CIARIES				
			covered includes: motor							
			starters, reversing							
			starters, overload relays,							
			motor start/ stop control,							
			control transformers,							
			magnetic motor starters,							
			two wire control, three							
			wire control, sequence control, jogging, on and off							
			delay timing, sensor							
			switches, and motor timer							
			control. Students will							
			learn installation,							
			operation, schematic							
			reading, circuit design,							
			and troubleshooting),		;					
			Teacher's Assessment/							
			Portfolio Guides (A							
			teacher's guide is provided. It contains							
			student data sheets, data							
			sheet solutions, self-							
			review answers, quizzes,							
			quiz answers, student skill							
			record sheets, and							
			authentic assessment. A							
			quiz is provided for each							
			packet. A question is							
			provided in each quiz for each cognitive objective							
			taught. All tasks listed in							
			the packet is listed on							
			personalized student							
			record sheets.							
			The Instructor's Package							
			includes directions for							
			authentic skill assessment.)							
			assessifient.							
_			Variable Frequency AC	-						
		Variable	Drive Station							
	2	Frequency AC		1	unit	2				
		Drive Learning System	Shall include the following:			1				

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OT ITEM	ITEM	DAC Qualification of the 2	QTY	UNIT	NO. OF BENEFI-	TOTAL AGENCY
10. NO.	ITEM	1 pc. Variable Frequency AC Drive with (Built in control keypad, Ability to program 30 different operating parameters Capability of displaying 10 different operating conditions Shall be capable of operating 3-phase motors from a single-phase supply Ability to accept commands from four (4) different sources: Keypad,	QTY	UNIT	BENEFICIARIES	ESTIMATE
		External pot, 4-20 mA Signal, ± 10-90 VDC signal, Built in fault diagnostics, DC injection braking capability, PWM type output with adjustable carrier frequency (2 to 8 kHz)				
		Provisions for addition of an external Dynamic Braking resistor, 1 pc. Two position fuse block with fuses, 3 pcs DPST push button switches, 3 pcs. SPDT toggle switches 1 pc. 3 PST keylock safety switch, 1 pc. Potentiometer with 10 turn indicating dial, 1 pc. Fault Module with 5 faults)				

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	ITEM AGENCY SPECS QTY UNIT BENEFI-										
NO.	NO.	ITEM	AGENCY SPECS	QTY	UNIT	1	TOTAL AGENCY ESTIMATE				
			in connections for a 3- phase motor) Student Curriculum or Manual and with Teacher's Assessment/			CIARLES					
	3	Electrical Measuring Instruments	Phase Sequence Indicator (Indication of the three phase via LCD, Indication of the phase rotation direction via LCD, Swift determination of the phase sequence in thee phase) Voltage Range: 40 to 700 V Frequency range: 15 to 400 Hz Safety Complying with: IEC 61010/EN61010, IEC61557-7/EN61557-7 Current Consumption: approx. 1 mA @ 700 V Digital Storage Oscilloscope (4 channel, 60 MHz, 5V/div Maximum vertical sensitivity, 2mV Minimum vertical Sensitivity 50s/div Maximum time base, 5ns/div minimum time base, TFT LCD, 2mV minimum vertical sensitivity) Clamp Meter Features and Benefits (Peak hold, Switchable low pass filter, TRMS measurement) Troubleshooting of RCD nuisance tripping (Periodic measurement of leakage current @50 Hz to check	1	unit	2					

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
			for insulation deterioration, Accurate measurement of triple neutral current and other distorted waveforms, Differential current measurement for appliance testing, Auto ranging) • Safety category voltage: 300 V, 600 V, 1000 V Safety category level: CAT II, CAT III, CAT IV • Absolute maximum resistance: 600k Ohm • AC current measurement resolution: 0.001mA • Best AC Current Accuracy: 1% + 8 digits, Best AC Voltage Accuracy: 1 % + 2 Digits • Tachometer (Optical and Mechanical measurement of rotation speed, Rotation speed, speed and length measurement, Memorization of min. and max. values as well as the last value at power down, Automatic Stop • Rotation speed: 1.00 to 99,999 rpm optical, 1.0 to 19,999 rpm mechanical • Speed: 0.10 to 1999 m/min. • Accuracy: +/- 0.02% full scale (=/- 1 digit)								
	4	PLC Motor Control Learning System	11-Gauge Steel Panel featuring: • Compact PLC- Micro Logix 1000 or 1200 PLC	1	unit	2					

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
			 16 digital Input-24Vdc 12 digital output relay Power input; 220-240-VAC / 60Hz. Connecting cables (300/ 1m. long) AC Inputs (10) Relay Outputs (6) Accessories: Programming cable software Power input- 220 V/ 60 Hz Simulator: 24 VDC 1 green push button (N.O.) 1 red push button (N.C.) 2- 3PSP Selector switch Output simulator: Buzzer 24 VDC 10 indicator lamp/ 24 VDC Short circuit protection features; Mounting required: Panel type w/ aluminum frame stand Student Curriculum and students manual 								
	5	Reduced Voltage Starting Learning System	Each station includes the following components: Power Resistor Station (3 pcs.) Power Resistor Stations - (3 pcs.) 25 ohm, 100 watt Dual Transformer Station (2 pcs.) Control Transformers	1	unit	2					

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
			(250VA minimum) multiple tap primary (208, 277, 380 (VAC) single tap secondary (120 VAC) and with; Student Curriculum or Student manual								
	6	Electrical Machines Learning System	Assembly system for rotating electric machines It includes the following components: Base plate, Supports with bearing, Coupling joints, Flexible coupling, Electronic speed transducer, Assembling screws, Wrenches, DC stator, AC stator, Rotor with commutator, Brush holder with 2 brushes, Cage rotor, Ring rotor, Brush holder with 6 brushes POWER SUPPLY Outputs in AC: • Three-phase: 24 V/ 14 A, 42 V/ 10 A • Single-phase: 0 – 48 V/ 5 A, 0 – 10 V/ 12 A Outputs in DC: • 32 V/ 14 A, 42 V/ 10 A, 0 – 40 V/ 5 A, 0 – 8 V/ 12 A Three-phase power supply from mains. LOADS AND RHEOSTAT • resistors: 3x15 Ohm, 90 W each, 1 Ohm + (0 – 2 Ohm), 80 W	1	unit	2					

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	Pro		Training Tools and Equi				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			 capacitors: 3 x 80 μF, 150 V rheostat: 0 - 80 Ohm, 1 A 				
			ELECTRICAL POWER DIGITAL MEASURING UNIT Measurement in direct current of: voltage, current, power and energy. Measurement in alternate current of: voltage, current, power, active energy, reactive energy, apparent energy, cos phi and frequency.				
			Main technical features: • DC voltage: 300 VDC • DC current: 20 ADC • AC voltage: 450 VAC • AC current: 20 AAC • Power: 9000 W • Power supply: single-phase from mains				
			Communication: RS485 with MODBUS RTU protocol.				
			ADAPTER BRACKET Necessary for connecting the locking device, the brake or the drive motor.				
	7	Pneumatics & Electro- Pneumatic Training Set	The Electro-pneumatic training set includes basic pneumatic training components. The user can train on the basics of electro-pneumatic control. Training Contents: 1. Physical principle of electro-pneumatics	1	unit	2	

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	Pro		Training Tools and Equi AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			2. Function of electro- pneumatics training set 3. Relay control circuit 4. Electric self-holding circuit 5. Feature of magnetic proximity switch 6. Electric sequence control circuit 7. Step diagram Consist of: 1. Push button switch set				
			2. Relay 3-fold - 2 Units 3. Limit switch electrical, left and right actuated 4. Optical sensor 5. Electric proximity switch 6. 3/2 way solenoid valve (N/C) 7. 5/2 way single solenoid valve - 3 units 8. 5/2 way double solenoid valve - 3 units 9. Pressure switch 10. One-way flow control valve - 4 units				
			Installation and Maintenand	ce NC	<u> </u>		18,964,410.752
6	1	Food Processor	Heavy Duty, 5 liters, stainless steel bowl, 220 V/ 60 Hz, 1 Hp	1	unit	1	
	2	Water Boiler	30 liters capacity, stainless steel, 220 V/ 60 Hz	1	unit	1	
	3	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase	2	unit	1	
	4	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	2	unit	1	
	5	Stove with Oven	Heavy duty; four burner gas stove with oven; cast	10	unit	1	

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	Pro		Training Tools and Equi	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			iron top plate; stainless steel material; BTU per hour: 15,000 - 64,000	•			
	6	Dehydrator	single chamber, 15 trays, stainless steel, 220 V/ 60 Hz	1	unit	1	
	7	Exhaust Hood	60 cm width; heavy duty; stainless steel; wall mounted	10	unit	1	
	8	Smoke House	1 door, 220 V/ 60 Hz, single phase, Dimension: 0.440 m³ - 1.62 m³	1	unit	1	
	Sub-	total, Food Pro	cessing				3,386,089.916
7	CNC	Lathe and Milli	ng Machine Operation NC II	<u> </u>	1	T	
	1	CNC Milling Machine	General Specifications: CNC Vertical Milling Machine Table Size: Length 750 mm - 1000 mm; Width 350 - 550 mm, Table Load Capacity: 500-1400 kg, Travel X-axis: mm - 850 mm, Y - axis: 400 mm - 600 mm, Z - axis: 500 mm - 600 mm, Maximum Spindle speed: 8,000 - 12,000 rpm; Direct Drive, Spindle Taper: BT 40, Tool Storage Capacity: 20 tools - 30 tools only, Electricals: 220 volts / 3 phase / 60 Hz, Spindle Motor Power: 20 hp - 30 hp, Max Rapids on (x, y, z): 25.4 m/ min - 42 m/ min; Servomotors on all axes, 4th Axes Drive and wiring, Coolant system, Max tool diameter: 80 -95 mm, bearing lubrication: air / oil/ grease injection Important features Included:	1	unit	3	

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Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			• 3 Units External CNC CONTROLLER SIMULATOR (Stand-alone exact replica (duplicate) of the CNC Controller of the machine for off-machine training on CNC programming, operation and simulation) • 4th Axis Rotary Table (Can be mounted horizontal / vertical, Worktable diameter: 160mm -350mm diameter, Accuracy: ±15sec, Servo Motor, complete with accessories) Machine Accuracy & Control Specifications • Control type - Dialog, Conversational/ Intuitive Programming Sys. /EIA/ ISO PROGRAMMING • Working Memory - 2 mb up to 1 gb						
			Minimum features and accessories included: • Fully enclosed machining center • USB port • ethernet interface • Automatic tool length measuring device/ Touch probe • Automatic voltage regulator 30KVA, 3 Phase, 220V • Air Compressor • Specified machining tool list: • 1 pc Drill Chuck • 1 pc Drill Chuck arbor BT 40						

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
			 5 pcs Quick Change Milling (Collet) Chuck 10 pc pull studs 15 pc Collets (3-25 mm) 1 pc Face mill arbor 20 pcs Carbide Inserts 1 set HSS End mills 1 set HSS Drill Bits 1 pc BT 40 Spindle taper cleaner 1 pc mill vise Coolant (pail) - 1 pc. With operations/ maintenance manual in English Language 1 year warranty for spare parts and 2 years in support service Includes Machine Commissioning and Training 								
	2	Lathe Machine (Conventional)	General Specifications: Horizontal Lathe Capacity Max swing over bed: 380 mm - 560 mm Max swing over gap: 600 mm - 780 mm Max swing over cross-slide: 200 mm - 380 mm Distance between centers: 1000 mm Bed width: 220 mm - 350 mm Cross slide travel: 230 mm - 300 mm Main Spindle Spindle bore: Ф50 mm - Ф80 mm Max Spindle speed: more than 1600 rpm Tailstock	1	unit	3					

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LOT NO.	ITEM NO.	ITEM	DAC Qualification of the 2	QTY	UNIT	NO. OF BENEFI-	TOTAL AGENCY
	HO.		- Tailatack apindle taper:			CIARIES	ESTIMATE
			 Tailstock spindle taper: MT 3, 4 or 5 				
			· ·				
			Threading • Metric pitch threads: 0.2-				
			14 mm/ pitch				
			• Inch pitch threads: 2-75				
			TPI				
			Feeding Range				
			 Range of longitudinal 				
			feeds: 0.04-1 mm/rev				
			 Range of cross feeds: 				
			0.02-1.25 mm /rev				
			Motor				
			Power Supply: Sob-				
			220 volts 60hz				
			Phase: 3 phase				
			Main spindle motor:				
			5 - 10 hp				
			Coolant pump motor: 1/8 hp				
			Accessories included:				
			• 1 pc - 3 Jaw chuck, 4				
			Jaw chuck , Face plate				
			• 1 pc - live center , dead				
			center	i			
			• 1 pc - Steady rest,				
			follower rest				
			• 1 set - lathe dog (straight				
			and bend tail)				
			• 1 set tool holder (left				
			hand, right hand, neutral				
			& threading tool)			ļ	
			• 1 pc - drill chuck with				
			arbor	and a second			
			• quick change tool				
			post				
			with Operations/ maintenance manual in				
			English				
			With Digital Read Out				

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LOT NO.	ITEM NO.	ITEM	AC Qualification of the	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			 with sleeve for MT 4 and MT 5 Machines 1 year warranty for spare parts and 2 years in support service Includes Machine Commissioning and Training 			CIANLES	
	3	Milling Machine (Conventional)	General Specifications: Vertical Turret Type Milling Machine • Table Size: Length 1270 mm x Width 254 mm • Longitudinal Travel (x): 800 mm - 950 mm • Cross Travel (y): 305 mm - 410 mm • Vertical Travel (Knee)(z): 305 mm - 410 mm • Max work piece weight: 300 - 400 kg • Spindle Motor: 2 hp to 3 hp • Maximum Spindle Speed: 2500 rpm-5500 rpm • Electricals: 220 V/ 3 phase/ 60 Hz Accessories included: • 1 set - Dividing Head gear ratio 40:1 w/ sets of gear, footstock, 3 indexing plates, sector arm • 2 sets of module cutter (mod 1.5, 2.0, 2.5)	1	unit	3	

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	Pro		f Training Tools and Equi DAC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			Spindle Arbor/ Milling Arbor with operations/ maintenance manual in English Language 1 year warranty for spare parts and 2 years in support service Includes Machine				
			Commissioning and Training				
	Sub-	total, CNC La	the and Milling Machine Oper	ation I	AC III		40,624,320.006
8	Weld	ling					
	1	SMAW/ GTAW Welding Machine	 Input power: voltage/Phase/ Hertz: 208 -230/ 1/ 50/ 60, Output range: 40-300A AC/DC Duty cycle: at least 40 - 60% Output Current Voltage (OCV): 50 - 80 V With Built - in High Frequency with Maintenance / Operation Manual in English Language Complete accessories: Electrode holder, heavy duty Heavy duty ground clamp TIG torch assembly Gas regulator with remote control (foot/hand) Power cables and welding cable 	8	unit	2	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
	2	GMAW/ FCAW Welding Machine	 Process: GMAW, Flux Cored AW Max. Open Current Voltage (OCV): 38 - 70 V Wire speed: 50 - 700 IPM Wire size range: 0.8 - 1.2mm Complete accessories: MIG gun, Heavy duty ground clamp and cable, 230V input power cable, Adjustable Gas regulator/ flowmeter and hose Amperage range: 30-300 A Rated output: Current/ voltage/ duty cycle 250A/ 26V/ 40% Input power: voltage/ Phase/ Hertz: 208 -230/ 1/ 50/ 60 	8	unit	2					
	3	Plasma Cutter	 Maximum Cutting Capacity: 22.2 mm (7/8") Input Power: 208-575 V/ 1/3 P/50/60Hz Rated output: 96-104V @ 40-50% duty cycle Input Current: 37.8 - 60 A Output Range: 20 - 60 A Complete accessories: Hand torch, Power cables, Air regulator and pressure gauge, 20 feet cable, Work clamp and cable Air compressor: at least 3 h, 1 phase/ or Delivery range 70 - 115 psi 	2	unit	2					

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
			(pressure capacity), • with Maintenance / Operation Manual in English Language								
	4	Stationary Electrode Oven	For Stick Electrode and MIG Wires Capacity: up to 300 lbs (136 kg) Electrode length: up to 18 in. (450 mm) Temperature range: 100 – 550 °F (38-288°C) adjustable (w/ thermostatic control and thermometer) Input Voltage AC: 220 V/ 60 Hz Heating Element: 1000 W with Maintenance / Operation Manual in English Language	1	unit	2					
	5	Ultrasonic Flaw Detector	 Portable Phased Array Instrument for NDT (Non-Destructive Testing) 16PA Phased Array Probe, 4 MHz, 16 element, 0.5mm pitch Phased array Wedges, ranging 35-75 degrees shear capacities for 0012 & 013 probes/ Phased array wedges transducers for different degrees (45°, 60°, 70°, etc.) Keypad: English, International, Language: English Battery type: Lithium-ion rechargeable standard, 	1	unit	2					

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
			(Lithium-ion / alkaline) including Battery charger: 220 VAC, 50 - 60 Hz • Operation manual • Standard Software's, CD, Removable SD Memory Card, SD adaptors to USB • Couplant-glycerin • Display Type: Full VGA multi-colored/ transflective color LCD, 60 Hz update rate • With complete accessories to operate including its featured functions, • Angle beam transducers, pulser, adaptors, calibration block and others` • Transducer connections: BNC or Number 1 LEMO							
	6	Oxy-acetylene Welding/ Cutting Outfit	Complete accessories: Oxygen and Acetylene Regulators blow pipe torch handle cutting and welding tips cutting torch or equal pressure cutting attachment for acetylene and alternative fuels, twin hose tip cleaner, spanner and flint lighter	3	unit	2				
	7	Lathe Machine (Conventional)	Lathe Machine, General Specifications: Horizontal Lathe • Max swing over bed - 350 - 560 mm	1	unit	2				

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<u> </u>	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
			 Max swing over gap – 500 - 780 mm Max swing over cross-slide - 150 - 380 mm Distance between centers- 500 - 1000 mm Bed width- 150 - 350 mm Cross slide travel - 150 – 300 mm Main Spindle Spindle bore - Φ30 - 80 mm Spindle speeds - 0-5000 rpm 18 steps 							
			Tailstock • Tailstock spindle diameter - 40 - 75 mm • Tailstock spindle taper – MT 3 or MT 4							
			Threading • Metric pitch threads - 0.2 -14.0 mm / pitch" • Inch pitch threads - 2- 75 TPI Feeding Range • Range of longitudinal feeds - 0.04 -1 mm/ rev • Range of cross feeds - 0.02-1.25 mm/ rev Motor • Power Supply - 220 volts, 60hz • Phase - 1 or 3 phase • Main spindle motor - 3 -							
			7.5 hp • Coolant pump motor – .125 HP (1/8" hp)							
			Accessories included: • 1 pc - 3 Jaw chuck with internal and external jaws, • 1 pc - 4 Jaw chuck, • 1 pc - Face plate,							

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	Pro		Training Tools and Equi AC Qualification of the	•		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			 1 pc - live center, 1 pc - dead center, 1 pc - Steady rest, 1 pc - follower rest, 1 set - lathe dog (straight and bend tail), 1 set tool holder (straight, left, right), 1 pc - drill chuck with arbor, quick change tool post, with Operations manual (English) 1 year warranty for spare parts and 2 years in 			CIANLES	
	8	Pencil Grinder	support service High speed die grinder Capacity: Collet- 6 mm to 8 mm 220 - 240 VAC No load speed: 7,000 - 28,000 rpm Continuous rating input: 400 - 750 W	3	unit	2	
	Sub-	total, Welding		L	L		17,363,932.554
9			r-Conditioning Servicing N	C III			
	1	Variable Refrigerant Frequency Air Conditioning Unit with Central Controller	8 HP capacity outdoor unit with 4 fan coil unit (FCU) 1 HP wall mounted 2 HP ceiling suspended cassette type (FCU) 220 volts 1 phase 60 hz	2	unit	3	
	2	Inverter Type Air Conditioning Unit (Cassette)	PACU cassette type A/C unit; 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3.0 tons	4	unit	3	
	3	Inverter Type Air Conditioning Unit (Ceiling Concealed)	Package type A/C unit, ceiling concealed ducted inverter split type, 5.0 kw, 220 v0lts, 60 hz, 2 hp capacity	4	unit	3	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
	4	Inverter Type Air Conditioning Unit (Floor Mounted)	Split type A/C unit , floor mounted, 220 volts AC, 60 hz, 3 phase, 4 hp capacity, 3 TR	4	unit	3					
	5	Inverter Type Air Conditioning Unit (Wall Mounted)	Split type A/C unit, wall mounted, 220 volts, 60 hz, 1 phase, cooling capacity, 10 kw, 3 hp capacity	4	unit	3					
	6	Oxy-acetylene with Complete Accessories	With complete accessories, cuts up to 15 mm, welds up to 5 mm with torch handle, equal pressure cutting attachment for acetylene and alternative fuels, mixer, 3 welding tips, cutting tips, single stage cylinder regulator for oxygen, safety goggle, igniter and flints, 10 way tank wrench, 6 m twin hose, brass handle with large flow capacity for heavy duty applications	4	unit	3	-				
	7	Welding Helmet (Auto- Darkening)	Auto darkening lense, wide vision, variable shade from DIN 9-13	5	рс	3					
	8	Portable Arc Welding Machine	Inverter type portable welding machine, ground clamp, power cables and welding cables, input power 220 V, output current: 200 Ampere	4	unit	3					
	9	Leak Detector	Intended for 404A, 410A, digital type heated diode sensor with mechanical pump, sensitivity level 2, sensitivity per year 0.25 ounce/ year, CFC's,	4	unit	3					

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			HCHF and HFC, sensor 2D alkaline batteries spare, filter and hard plastic carrying case, unit cases heated diode sensor technology automatically compensate for changing background, contamination						
	10	Anemometer SE	Digital type, measuring the current wind speed with minimum and average values, temperature display and percieve temperature (wind chill), wind strength can be set as meter, m/s, km/h, mph, knots	5	unit	3			
	11	Refrigerant Recovery Machine (Hydrocarbons)	220-240 VAC, 60hz, with recovery tank of 50 lbs capacity, direct liquid of 3.03 lbs per minute, direct vapor of 0.03 lb per minute, push/pull of 12.22 lbs per minute	4	unit	3			
	12	Vacuum Pump	Two-stage, 220 VAC, 60 hz, single phase, 5.0 CFM capacity	4	unit	3			
	13	Portable High Pressure Washer	220 volts, 60 hz, 1 hp capacity, single phase	5	unit	3			
	14	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	4	unit	3			
	15	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase tion and Air-Conditioning \$	4	unit	3	17,744,811.744		

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	Pro		Training Tools and Equi	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
10	Ware	ehousing Servic	es				
	1	Forklift Truck (Counter Balance)	Not less than 3000 mm max. lifting height capacity Lifting weight/ rated capacity- minimum 1 ton Battery Charger	2	unit	1	
	2	Forklift (Reach Truck)	Not less than 3000 mm max. lifting height capacity Lifting weight/ rated capacity- minimum 1 ton Battery Charger	2	unit	1	
	3	Trans-Stacker/ Transporter	Vertical Lift Hydraulic Dimension not lesser than 57" x 27" x 62" Not less than 1000 lbs capacity	4	unit	1	
	4	JIB Crane	1 ton capacity mobile 220 VAC, 3 phase	1	unit	1	
	5	Hand Hoist (Chain Block)	2 tons capacity heavy duty	3	unit	1	
	6	Shelving Unit	Not less than 36" x 30" x 85", 2 Layer Steel Heavy duty	17	unit	1	
	7	Trolley, Platform Type with Handle	Steel Handle Not less than 710 x 455 mm Up to 150 kg capacity With heavy duty wheels	6	unit	1	
	8	Pallet Truck	Hand Driven Steel Handle Hydraulic Not less than 2 tons capacity	3	unit	1	

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	Pro		Training Tools and Equi	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	9	Drum Truck Trolley/ Lifter	Self-Standing with Kick Stand 180 kg capacity Adjustable drum truck allows for transporting Tipping Not less than 1520 mm x 600 mm x 1500 mm	3	unit	1	
	10	Step Ladder, Double Sided	Not less than 8 feet Double sided	4	unit	1	
		total, Warehousii	ng Services				8,201,193.440
11	Mech	natronics NC IV	FEATURES:				
	1	Automatic Production Line Trainer	Automatic Production Line Trainer (APL) contains comprehensive training programs for each unit station, automatic production line, pneumatic system, frequency inverter, PLC high-speed pulse and counter, servo motor, analog, network technology, human-machine interface, and configuration technology 5 lines composed of: *Conveying unit/ Processing unit/ Feed unit/ Sorting unit/ Assembly unit Power supply: 3 phase, 5 line AC, 380 V, ±10%, 60 Hz Rack: Aluminum and Steel Includes Service Manual and warranty Workbooks and Software	1	set	1	
	2	MPS (Modular Product System)	Input Power: AC 220 V, 60 Hz	1	set	1	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			Output Power: DC 24 V, 3A Interface: 1) Digital Input/ Output (default); 2) Fieldbus: Profibus Includes Sub-systems 1. Distribution - separating parts from stack and feeding into a process 2. Sorting - Sorts parts by color and moves them via an electrical conveyor belt 3. Processing - Electrical rotary table models common industrial processes 4. Separator - The separating station permits the creation of flexible assembly lines 5. Handling - Modern pick and place application that moves part from pick-up point to one of several drop-off locations Includes Service Manual and warranty, and Workbooks and Software						
	3	Human Machine Interface Package	HMI Designer studio software - CD 24 voltage supply can be looped through with key panel Number of keys- 8 LED colors- red, yellow, green, blue, white Digital input -8 (2 additional fail safe inputs with KP8F)	1	set	1			

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	Pro		raining Tools and Equi	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			Digital output- 8				
	:		Includes Service Manual and warranty, and Workbooks and Software				
	Sub-	total, Mechatror					8,979,602.369
12		d and Beverages					
	1	Espresso Machine	Dual- boiler technology and saturated brewing groups Steam Boiler Capacity: 7 Liters Coffee Boiler Capacity: 3.4 Liters, Semi- Automatic, Stainless steel boilers and brewing groups, Omni-directional stainless steel steam wands, Solid stainless steel housing and base, Sight glass for water level monitoring of steam boiler, 220 V, 60 Hz	2	unit	1	
	2	Coffee Grinder	Wide grinding range, from espresso fine to a coarse drip, Revolutionary pass-through grind mechanism with 28 - 270 grind settings: 25 - 30 stepped macro settings plus a step less micro adjustment range, Convertible grinding forks- grind hands- free directly into a porta filter, or convert to grind into the included bin or your favorite dripper, Time- based grinding with three customizable presets Power: 220 V, 60 Hz, 290 watts	3	unit	1	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
	3	Coffee Maker	Dimensions (W x D x H c m): 22 x 26 x 28 cm Removable water reservoir: 1.4 L Pump pressure: 20 Bar Filter holder for ground coffee, pods and capsule Rapid Espresso Cappuccino System: Cup warmer Removable drip tray, 220 V, 60 Hz	5	unit	1				
	4	Juicer	1500 watts locked power juicer, 5.34 kg, juice jug capacity: 1.5 liters, pulp collector capacity: 3 liters, 220 V, 60 Hz	4	unit	1				
	5	Dinner Plates	10 inches diameter plate, ceramic/ porcelain, white in color, and round in shape	50	рс	1				
	6	Appetizer Plate	6 inches diameter; ceramic/ porcelain, white in color and round in shape	50	рс	1				
	7	Show/ Service Plates	13 inches diameter, ceramic/ porcelain, white in color and round in shape	50	рс	1				
	8	Salad Plates	8 inches diameter, ceramic/ porcelain, white in color and round in shape	50	рс	1				
	9	Fish Plates	9 inches diameter, ceramic/ porcelain type, white in color and round in shape	50	рс	1				

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
	10	Dessert Plates	8 inches diameter, ceramic/ porcelain, white in color and round in shape	50	рс	1				
	11	Side Plates or Bread Plates	6 inches diameter, ceramic/ porcelain, white in color, and round in shape	50	рс	1				
	12	Soup Plate/ Bowl	3 inches deep, ceramic/ porcelain, white in color and round in shape	50	рс	1				
	13	Bouillon Cups & Saucers	Ceramic/ porcelain, Cup and Saucer - 5 inches diameter, white in color	50	set	1				
	14	Teacups and Saucers	Ceramic/ porcelain; Set of cup and saucer cup - 10 oz capacity; Saucer - 4 cm diameter; white in color	50	set	1				
	15	Tea Pots	Stainless steel micromesh filter; 42-ounce tea pot and infuser	10	рс	1				
	16	Demitasse Set	Set of cup and saucer with teaspoon; ceramic/ porcelain, 3-1/3 oz cup capacity, 4 inches long tsp, white in color	50	set	1				
	17	Dinner Spoon	Measures 8" L 18/8 stainless steel construction Dishwasher safe	50	рс	1				
	18	Dinner Forks	Measures 8" L 18/8 stainless steel construction Dishwasher safe	50	рс	1				
	19	Dinner Knives	Measures 9-1/2" L 18/8 stainless steel construction Dishwasher safe	50	рс	1				

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
	20	Salad Forks	Stainless steel Length: 22.5 cm Thickness: 8 mm	50	рс	1				
	21	Salad Spoon	Measures: 6-3/4" L 18/8 stainless steel construction Dishwasher safe	50	рс	1				
	22	Salad Knives	Stainless steel Stain resistant, dishwasher safe, 5 - 7" long	50	рс	1				
	23	Fish Knives	Stainless steel fish knives Length: 22.5 cm Thickness: 8 mm Weight: 86 g	50	рс	1				
	24	Fish Forks	Stainless steel fish fork Length: 21.5 cm Thickness: 8 mm Weight: 86 g	50	рс	1				
	25	Dessert Spoons	Stainless steel; stain resistant, durable, 4" long	50	рс	1				
	26	Dessert Forks	Stainless steel; stain resistant, durable, 6" long	50	рс	1				
	27	Cocktail Forks	Stainless steel, stain resistant, durable, 4" long	50	рс	1				
	28	Teaspoon	Measures: 6 - 3/4" L 18/8 stainless steel construction Dishwasher safe	50	рс	1				
	29	Steak Knives	Stainless steel, stain resistant, durable, 6" long	50	рс	1				

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
	30	Service Forks	Stainless steel, stain resistant, durable, 7" long	20	рс	1				
	31	Service Spoons	Stainless steel, stain resistant, durable, 7" long	20	рс	1				
	32	Steak Forks	Stainless steel, stain resistant, durable, 6" long	50	рс	1				
	33	Oyster Forks	Stainless steel, stain resistant, measure 5 3/8" long	50	рс	1				
	34	Butter Knives	Stainless steel, stain resistant, durable, 16 cm	50	рс	1				
	35	Red Wine Glasses	Stemmed glass; 12 3/8 oz. capacity, crystal glass	50	рс	1				
	36	White Wine Glasses	Stemmed glass, 9 7/8 oz capacity, crystal glass	50	рс	1				
	37	Water Goblets	Stemmed glass, 14 3/4 oz capacity, crystal glass	50	рс	1				
	38	Champagne Flute	Stemmed glass, 190 ml capacity, crystal glass	50	рс	1	į			
	39	Pilsner Glasses/ Ice Tea Glasses	Crystal glass; Dimension: 8" H x 3" W x 3" D; Capacity: 16 oz	50	рс	1				
	40	Wine Decanter	Capacity: 200 ml, Material: High quality Glass, Unique and elegant shape, easy to pour	10	рс	1				
	41	Waiter's Friend	Stainless steel, all-in-one corkscrew, bottle opener and foil cutter	5	рс	1				
	42	Salt and Pepper Shakers	Stainless Steel Salt and Pepper Grinder	10	рс	1				



	Pro		Training Tools and Equ AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	43	Rectangular Trays	Non-slip plastic tray; heavy duty construction for commercial use; rubber liner prevents slipping; stain and odor resistant	10	рс	1	
	44	Round (Bar) Trays	Non-slip plastic tray; Heavy duty construction for commercial use; Rubber liner prevents slipping; stain and odor resistant	10	рс	1	
	45	Soup Tureen	Microwave and dishwasher safe; white porcelain; covered soup tureen with ladle	10	рс	1	
	46	Peppermill	Stainless steel/ wood; 5.5 inch long	10	рс	1	
	47	Sauce Ladles	Stainless steel with end hook for hanging; heavy duty; Size: 20 cm x 4 cm	10	рс	1	
	48	Cake Servers	Stainless steel; stain resistant, durable, 5 1/2" long	10	рс	1	
	49	Ice Buckets with Tongs	Stainless Steel, 3 liters/ 0.8 gallon	10	рс	1	
	50	Boning Knives	Stainless Steel; 5 inch long; with black handle	10	рс	1	
	51	All-Purpose Knives	Stainless Steel; 8 inch chef knife; thickness: 3.0 mm; knife length: 13.5 inch; blade length: 8 inch	10	рс	1	
	52	Chopping Boards	Rubberized/ polyethylene, medium size, white in color	10	рс	1	



	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
	53	Non-Stick Round (Crepe) Pan	Aluminum fry pan; non- stick coating fry pan; diameter: 16*4.0 cm - 20*4.0 cm, 26*4.8 cm; shape: round	10	рс	1				
	54	Turners (For Non-Stick Pans)	Silicone slot turner of kitchen; size: 342*82*48 mm	10	рс	1				
	55	Reach-in Chiller	Heavy duty; two door reach-in, stainless steel body; 500 liters capacity; 220 V/ 60 Hz; single phase	2	unit	1				
	56	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	2	unit	1				
	57	Water Dispenser (Hot & Cold Dispenser)	Cooling Capacity: 2 L/h Heating Capacity: 5 L/h Cold Water Temperature: 5 - 10°C Hot Water Temperature: 85 - 95°C Cooling Power: 90 W Heating Power: 550 W Compressor brand: Asbeila S30G Water Faucet Connection: Fixed Tank Material: Hot & Cold Tank Material Hot & Cold Tank Structure: Welding or belt Left & Right Side Panel Thickness: 0.5 mm Inner Silicon tube Level: Food Grade 220 V 60 Hz	5	unit	1				

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	Pro		Training Tools and Equ AC Qualification of the	•		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	58	Stove with Oven	Heavy duty; four burner gas stove with oven; cast iron top plate; stainless steel material; BTU per hour: 15,000 - 64,000	5	unit	1	
	59	Washing Machine	Top loaded, 10 kgs, 220 volts, 60 Hz, single phase, spin dry	3	unit	1	
	60	Mop Bucket with Wringer	Plastic, 32 liters capacity	5	unit	1	
	61	Ice Crusher	220 V/ 300 watts/ 60 Hz, scrapping block ice into flake ice, micro switch, container volume: 1000 ml, 304 stainless steel blade	4	unit	1	
	62	Stand Mixer	3.5 liter capacity mixer, 220 V/ 700 watts, 4 speed electronic pulse, stainless steel basket	4	unit	1	
	63	Hand Mixer	140 watts mixer, 6 speed operation, free standing base, 220 V, 60 Hz	5	unit	1	
	64	Food Processor	Heavy duty, 5 liters, stainless steel bowl, 220 V/ 60 Hz, 1 hp	3	unit	1	
	65	Steam Iron	Ceramic sole plate, output: 35 g/min, steam boost: 100 g, 2100 watts, water tank capacity: 270 ml, 220 V, 60 Hz	5	unit	1	
	66	Beverage Chiller	35 cubic feet, digital controller, 220 V/ 60 Hz, single phase	2	unit	1	
	67	Dishwashing Machine	Hood type 220 VAC/ 1 phase 800 - 1600 plates capacity per hour includes tray/ racks	2	unit	1	
	Sub	total, Food and	Beverages Services NC III				4,055,102.340

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	Pro		Training Tools and Equi	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
13	Com	mercial Cookin	g NC III				
	1	Freezer	Heavy duty; two door reach-in, stainless steel body; capacity: 500 liters; 220 V/ 60 Hz; single phase	2	unit	1	
	2	Reach-in Chiller	Heavy duty; two door reach-in, stainless steel body; 500 liters capacity; 220 V/ 60 Hz; single phase	2	unit	1	
	3	Stove with Oven	Heavy duty; four burner gas stove with oven; cast iron top plate; stainless steel material; BTU per hour: 15,000 - 64,000	5	unit	1	
	4	Stock Pot	Heavy duty; Four burner stove; cast iron top plate; stainless steel material; countertop	5	unit	1	
	5	Deep Fat Fryer	Heavy duty; electrical twin tank fryer; stainless steel material; countertop; capacity 10 liters; 220 V/ 60 Hz; single phase; power: 2 Kw - 17 Kw	5	unit	1	
	6	Commercial Microwave Oven	Heavy duty; stainless steel body; capacity: 17 liters; 220 V/ 20 Hz; single phase; power: 1 kW- 3 kW	7	unit	1	
	7	Dishwashing Machine	Hood type 220 VAC/ 1 phase 800 - 1600 plates capacity per hour includes tray/ racks	1	unit	1	
	8	Blender Machine	Heavy duty; stainless steel blade; capacity: 2 liters; heavy duty; 220 V/ 60 Hz/ 1 phase; power: 1.1 kW - 2.7 kW	7	unit	1	

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	Pro		Training Tools and Equ AC Qualification of the	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	9	Pressure Cooker	Heavy duty; stainless steel; capacity: 9 liters	5	unit	1	
	10	Meat Slicer	Aluminum and stainless steel body material; stainless steel blade; adjustable thickness slice; 220 V/ 60 Hz; single phase	2	unit	1	
	11	Meat Grinder	Aluminum and stainless steel body material; stainless steel blade; capacity: 5 - 10 lbs per minute; 220 V/ 60 Hz; single phase; power: 0.735 kW - 1.3 kW	2	unit	1	
	12	Salamander Griller	Twin basket; countertop; stainless steel and chrome material; voltage/ frequency: 220 V/ 60 Hz; single phase	5	unit	1	
	13	Exhaust Hood	60 cm width; heavy duty; stainless steel; wall mounted	10	unit	1	
	Sub-	total, Commerc	ial Cooking NC III	L	l		4,070,116.336
14	Info	mation and Cor	nmunication Technology				
	1	Laptop	i7 (2.5GHZ- Minimum Speed) 8Gb RAM DDR4 512GB SSD ·4GB Dedicated Video Card 15.6" Display Mouse Wired and wireless Ethernet connection At least two (2) USB Port Windows 10 or latest OS Microsoft Office (Full Installation) Educational License	13	unit	23	

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	Pro		Training Tools and Equ AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	2	Inkjet Printer	With Print, Scan, Copy, Fax features Tank type ink system Supports A4 and Legal Paper sizes Approximately 15 page per minute (Black) Can scan documents over network environment Photo Quality WiFi Connectivity	3	unit	23	
	3	Wireless Router	1 WAN and 4 LAN ports 802.11g, 802.11n USB port for shared printing/storage English firmware/ User interface Supports home and cloud application	3	unit	23	
	4	Smart TV	65 inch High Definition (3,840 × 2,160) SMART Features Ethernet and Wireless Connectivity USB, HDMI and A/V port with wall mount provision Multi-system compatible	1	unit	23	
	5	Tablet	128 GB Storage WiFi With installed MS Office Application	4	unit	23	
	6	Network Attached Storage	8 TB At least 2 Hard disk bay 2 LAN Port (Gigabit Interface) USB port English firmware/ User interface With file and media server Windows and MAC Compatible	1	unit	23	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs										
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE				
	7	Multimedia Projector	Projection system LCD/DLP chip technology Brilliant Color Images: with 16.7 M color reproduction Projected image size: 30 to 300 inches Distance: 1 to 13.5 meters Brightness: 5,000 - 6,000 lumens Resolution: WXGA (1024 x 768) pixels Lamp life: 3,000 hours USB port: Type Bx1 Interface: wired/ wireless	1	unit	23					
	8	CCTV System	8 Channel 1080p Digital Video Recorder; Video Format NTSC; Video Inputs: 8 channel; Video outputs: HDMI; Display Resolution: Up to 1080p; Audio Input 1 Channel, RCA Note: This supports audio input in live mode with an external microphone (not included) This port does not support recording of audio; Audio Output 1 Channel, RCA Output; Recording Compression Format H.264; Recording Resolution: 1080p; Recording Modes: Motion, Continuous, Manual; HDD Interface/ Memory Type: SATA2; HDD: 2TB installed (expandable to 4TB); Network Interface: 1 X	1	unit	23					

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F	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
	EM O.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
			RJ45 Operating Power: DC 12V, 8 X 1080p Cameras; Video Quality: 1080p (2.1 Megapixel); Viewing Angle: 90; Night Vision distance: Up to 100 ft.; Indoor/ Outdoor or Outdoor, IP67 Operating Temperature: 4" F - 122" F Body Construction: Aluminum, Bullet Style							
9	Э	Drone	Max Flight Time: Approx. 30 minutes Satellite Positioning Systems: GPS/ GLONASS Gimbal Stabilization: 3-axis (pitch, roll, yaw) Controllable Range: Pitch -90° to 30° Infrared Sensing System Obstacle Sensory Range: 0.6 - 23 ft (0.2 - 7 m) Remote Controller Max Transmission Distance: 2.400 - 2.483 Ghz (Unobstructed, free of interference), FCC 4.3 mi (7 km), CE 2.2 mi (3.5 km), SRRC 2.5 mi (4 km); 5.725 - 5.825 GHz (Unobstructed, free of interference), FCC 4.33 mi (7 km), CE 1.2 mi (2 km), SRRC 3.1 mi (5 km) Battery: 6000 mAh liPo 2S	1	unit	23				

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
			Video Output Port: GL300E HDMI, GL300F USB Mobile Device Holder: GL300E- Built-in display device (5.5 inch screen, 1920x1080, 1000cd/m², Android system, 4 GB RAM + 16 GB ROM); GL300F- Tablets and smart phones						
			Voltage: 15.2 V Battery Type: liPo 4S Vision System: Forward Vision System, Backward Vision System, Downward Vision System						
			Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground						
			Altitude Range: 0 - 33 ft (0 - 10 m) Operating Range: 0 - 33 ft (0 - 10 m) Obstacle Sensory Range: 2 - 98 ft (0.7 - 30 m) Camera Sensor: 1" CMOS, Effective pixels: 20M Lens: FOV 84° 8.8 mm/ 24 mm (35 mm format equivalent) f/ 2.8-f/ 1.1 auto focus at 1 m						
			ISO Range: Video 100- 3200 (Auto), 100- 6400 (Manual); Photo 100- 3200 (Auto), 100- 12800 (Manual)						
			Mechanical Shutter Speed: 8 - 1/ 2000 s Electronic Shutter Speed:						

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	Pro	curement of T	raining Tools and Equi	pmen 23 Ce	it for tl	he High	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			8 - 1/8000 s PIV Image Size: 4096x2160, 3840x2160, 2720x1530, 1920x1080, 1280x720 Still Photography Modes: Single Shot, Burst Shooting 3/5/7/10/14 frames, Auto Exposure Photo: JPEG, DNG (RAW), JPEG + DNG) Video: MP4/ MOV (AVC/H.264; HEVC/H.265) Supported SD Cards: Micro SD, Max Capacity 128 GB, Write Speed ≥15MB/s, Class 10 or UHS-1 rating required Charger Voltage: 17.4 V			CIANIES	
	10	DSLR Camera	Camera lens of at least 18 - 55 mm; 24.2MP APS-C CMOS Sensor Digic Image Processor; 3.0" 1.04M-DOT Vari-angle Touchscreen Full HDn 1080p; Video recording at 60 fps 45-point All Cross Type Phase; Detect AF Dual Pixel CMOS AF; Up to 6 fps shooting and ISO 25,600 built in Wi-Fi with NFC	1	unit	23	
	Sub	<i>total,</i> Information	on and Communication Tec	hnolog	ЗУ		50,920,147.212
15	Scie	nce Lab (Chemi	stry and Physics)				
	1	Graduated Cylinder	Polypropylene (plastic) material 10 ml capacity	10	рс	23	

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	Pro		Training Tools and Equ AC Qualification of the				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	2	Graduated Cylinder	Polypropylene (plastic) graduated cylinder 100 ml capacity	5	рс	23	
	3	Test Tubes	Glass material Large 15 ml capacity	12	рс	23	
	4	Thermometer	Lab Thermometer: Red Alcohol, 20 to 110° C, Total Immersion Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 110° C; Divisions: 1C With permanently fused markings; packed in protective sleeving	7	рс	23	
	5	Laboratory Tong	Stainless steel 8 3/4" long	5	рс	23	
	6	Safety Goggles	Direct ventilation perforated frame Recyclable clear vinyl body Polycarbonate lens Elastic adjustable headband for secure fit, can be worn over prescription glasses	13	рс	23	
	7	Beaker	Durable glass material 250 m Borosilicate	5	рс	23	
	8	Erlenmeyer Flask	Durable glass material 250 mi Borosilicate	3	рс	23	

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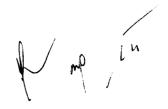
	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs								
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE		
	9	Stirring Rod	Stir rod, borosilicate glass, 10 inch (250 mm) 10 inch (250 mm length x 6 mm OD) borosilicate glass stirring rod with polished ends	5	рс	23			
	10	Glass Funnel	Heavy duty borosilicate glass funnels Funnel has a well formed rim Top diameter: 4 inch (100 mm) Stem length: 4 inch (100 mm) Stem diameter: 0.35 inch (8 mm)	3	рс	23			
	11	Petri Dish	Strong borosilicate glass design Bottom dish: 60 x 15 mm (2.36 x 0.59 inch) Cover: 65 mm (2.5 inch)	4	рс	23			
	12	Watch Glass	100 mm Selected quality glass, polished ground edges	5	рс	23			
	13	Evaporating Dish	Porcelain crucible type Hemispherical shape 75 ml capacity	5	рс	23			
	14	Spring Balance	Newton's Spring Scale - 10N x 0.5N Made from anodized metal, richly plated, high impact polystyrene body with zero adjustment. Calibrated in newtons	10	set	23			

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	Pro		Training Tools and Equi				er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	15	Vernier Caliper	Science ware Digi-MAX Double scales Polymeric plastic 150 mm scale with 0.1 mm subdivisions 6 inch scale with 0.005 inch subdivisions Length: 9 inch (23 cm) Parallel jaws are 1.55 inch (40 mm) deep Inside jaws and round plastic rod depth gauge provide added value Upper scale: 150 mm with 0.1 mm subdivisions Lower scale: 6 inch with 0.005 inch subdivisions Molded in rigid plastic, will not scratch like metal Non-conducting, corrosion resistant, and lightweight	10	set	23	
	16	Ammeters	Analog Tabletop micro ammeter perfect for physics classroom demonstrations or experiments in electricity and electronics laboratories	5	set	23	
	17	Biological Microscope	Feature-packed entry-level biological microscope 10x eyepiece and 4x, 10x, and 40x objective lenses combine to provide powers of 40x, 100x, and 400x Fully coated glass optics All-metal body with monocular head 50 mm (2") mirror	1	unit	23	

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	Procurement of Training Tools and Equipment for the Higher Level DAC Qualification of the 23 CenTExs									
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE			
			provides illumination to make details of specimen slides easier to see							
			Basic condenser concentrates light onto the specimen							
			Adjustable arm (0° to 60°) for comfortable viewing							
			Lab Thermometer: Red Alcohol, 20 to 150° C, Total Immersion							
	18	Thermometer	Student Grade Thermometer: Red Alcohol, White Back; Length: 300 mm; Immersion: Total Range: -20 to 150°C; Divisions: 1C	7	рс	23				
			With permanently fused markings, packed in protective sleeving							
	19	PH Papers (Per Box)	High accuracy pH test paper, pH range from 1-14 pH 1-14 color chart in each pack, full range 1-14 80 strips per box	5	box	23				
	20	Safety Gloves	Lightly powdered latex gloves 50 pairs per pack, size 8 - 8.5 inch	5	pack	23				
-	21	Test Tube Brush	300 mm / 12 Inch Nylon bristle mounted in heavy gauge twisted galvanized wire with loop Bristles approximately 25 mm (1 inch) diameter	5	pc	23				



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	Pro		Training Tools and Equi AC Qualification of the				er Level
LOT NO.	NO.	ITEM	AGENCY SPECS	QTY	UNIT	BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
	22	Reagent Bottle	Dark glass with special cap/ stoppers 250 ml capacity	5	рс	23	
	23	Lens Mirror Prism	Physical Science Optical Experiments Kit Contains triangular prism, convex lens, and concave mirror fisica for Student's Optics Physics Experiment	1	set	23	
	Sub-	<i>total,</i> Science L	_ab (Chemistry and Physics)	l		1,813,619.414
16	Surv	eying Equipme					
	1	Total Station Surveying Equipment	3.5" Large Dual Touch- screen HD Display Android Smartphone as data collector EDM Trigger, automatically measurement key 500 Meters long range reflector less 200,000.00 points memory data upload/ download Complete surveying/ construction/ road programs on board Electronic Bubble; direct data plotting on main screen Alphanumeric Keys for easy and quick data input MS Windows Compatible; GPS data ready Data Text, DXF, CSV/ AutoCAD ready Telescope - Length: 125 - 152 mm - Magnification: 30x - Image: Erect	1	unit	4	

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	Pro		Training Tools and Equ AC Qualification of the	-		_	er Level
LOT NO.	ITEM NO.	ITEM	AGENCY SPECS	QTY	UNIT	NO. OF BENEFI- CIARIES	TOTAL AGENCY ESTIMATE
			- Field of View: 1°20' - 1°30' - Resolve Power: 3" - Min. Focus Distance: 1.3 - 1.7 m Measurement Range: 1.5 to 5,000 meters				
	Sub	<i>total,</i> Surveyin	g Equipment		l		1,909,600.004
17		Conditioning Ur		9.5		•	
	1	Air Conditioning Unit	Inverter type air conditioning unit Split type AC unit, floor mounted, 4 hp, 220 volts/ 60 Hz/ 3 phase, cooling capacity: 10 kw	1	unit	3	
	Sub	-total, Air Cond		557,702.640			
TOTA							229,999,986.215

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Section VIII. Bidding Forms

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Bla Form				
	Invitation to	Date: D Bid ² Nº:		
To: [name and address o	f Procuring Entity]			
Gentlemen and/or Ladies:				
numbers], the receipt of voffer to [supply/deliver/per Bidding Documents for the	which is hereby du form] [description of e sum of [total Bio ascertained in ac	ts including Bid Bulletin Numbers [insert ly acknowledged, we, the undersigned, of the Goods] in conformity with the said amount in words and figures] or such cordance with the Schedule of Prices		
We undertake, if our the delivery schedule spec	Bid is accepted, t	to deliver the goods in accordance with the of Requirements.		
		p provide a performance security in the in the Bidding Documents.		
We agree to abide provision for ITB Clause accepted at any time befo	18.2 and it shall	e Bid Validity Period specified in <u>BDS</u> remain binding upon us and may be that period.		
		or to be paid by us to agents relating to warded the contract, are listed below: ³		
Name and address of agent	Amount and Currency	Purpose of Commission or gratuity		
(if none, state "Non	e")			

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

 ² If ADB, JICA and WB funded projects, use IFB.
 ³ Applicable only if the Funding Source is the ADB, JICA or WB.

We certify/confirm that we comply with the eligibility requirements as per ITB Clause 5 of the Bidding Documents.

We likewise certify/confirm that the undersigned, [for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of <u>Name of Bidder</u>, has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the <u>Name of Project</u> of the <u>Name of the Procuring Entity</u>] [for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the <u>Name of Bidder</u>, to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for <u>Name of Project</u> of the <u>Name of the Procuring Entity</u>].

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Dated this	day of	20
[signature]	[in the	e capacity of]
Duly authorized to sign I	Bid for and on behalf o	of

For Goods Offered From Abroad

Name of Bidder								
_		·		of	f			
	2	3	4	5	6	7	8	9
m	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Pri delivere DDP (col 4 x
	,							
<u>[</u> s	ignature]				the capa	city of]		_
רח	uly autho	rizad ta	sian Ric	l for and on beh	alf of			
ט	uly autho	rizea to	sign Bio	d for and on beha	air Of			

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⁴ If ADB, JICA and WB funded projects, use IFB.

For Goods Offered From Within the Philippines

	Name of Bidder			Invitation to Bid ⁵ Number of				Page	
						_			
1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportatio n and Insurance and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)
	[signature	e]		·	[in the	e capacity	of]		_
	Duly auth	norized	to sign E	Bid for and	on behalf o	of			

⁵ If ADB, JICA and WB funded projects, use IFB.

Contract Agreement Form

[name of the one	f PR0 part	AGREEMENT m OCURING ENTITE and [name of Supplier") of the other	TY] of the Phil Supplier] of [c	lippines (her	einafter ca	lled "the	Entity") of
viz., [briefor the su	e <i>f des</i> upply	EAS the Entity scription of goods of those goods inafter called "the	s <i>and services</i> and services	s/ and has a in the sum o	ccepted a l	Bid by the	Supplier
N	OW -	THIS AGREEME	NT WITNESS	ETH AS FO	LLOWS:		
		Agreement word assigned to the					anings as
		llowing documen Agreement, viz.		emed to form	n and be r	ead and o	construed
(a (b (c (d (e (f) (g	o) c) d) e)	the Supplier's E and all other do to clarifications from the Procuring the Schedule of the Technical Sp the General Cont the Special Cont the Performance the Entity's Notice	cuments/state on the bid), in Entity's bid Requirements ecifications; ditions of Confictions of	ements submeding concluding concevaluation; s; atract; tract;	nitted (e.g.	bidder's	response
hereinaft goods ar	ter m	sideration of the entioned, the Su ervices and to re s of the Contract	pplier hereby	covenants	with the Éi	ntity to pr	ovide the
provision Contract	n of t Pric	ntity hereby cover the goods and e or such other at the time and in	services and sum as may	the remed become pay	ying of devable unde	efects the r the pro	erein, the
executed	d in a	TNESS whereof accordance with above written.					
Signed,	seale	ed, delivered by _		the		(for the E	Entity)
Signed,	seale	ed, delivered by _		the		(for the	Supplier).

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Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINE	S	,
CITY/MUNICIPALITY OF) S.S.	•

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. Select one, delete the other:

If a sole proprietorship: I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. Select one, delete the other:

If a sole proprietorship: As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;



- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
- 6. Select one, delete the rest:

If a sole proprietorship: The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. [Name of Bidder] is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.



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at, Philippines.	e nereunto set my	nand this day of, 20
Signatory	Bidder's	Representative/Authorized
SUBSCRIBED AND SWOR [place of execution], Philippines. was/were identified by me through 2004 Rules on Notarial Practice (his/her [insert type of government and signature appearing thereon, Certificate No issued on Witness my hand and seal the subscription of the subscri	Affiant/s is/are p competent evidence (A.M. No. 02-8-13-3 identification card with no at	ce of identity as defined in the SC). Affiant/s exhibited to me used], with his/her photograph and his/her Community Tax
	NAME OF NO Serial No. of O Notary Public Roll of Attorne PTR No.	DTARY PUBLIC Commission for until eys No [date issued], [place issued] [date issued], [place issue]
Doc. No Page No Book No Series of		

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* This form will not apply for WB funded projects.

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Bank Guarantee Form for Advance Payment

To: [name and address of PROCURING ENTITY] [name of Contract]

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends Clause 10 of the General Conditions of Contract to provide for advance payment, [name and address of Supplier] (hereinafter called the "Supplier") shall deposit with the PROCURING ENTITY a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of [amount of guarantee in figures and words].

We, the [bank or financial institution], as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PROCURING ENTITY on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding [amount of guarantee in figures and words].

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the PROCURING ENTITY and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until [date].

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]	
[address]	
[date]	



BID SECURING DECLARATION FORM

REPUBLIC OF THE PHILIPPINES)	
CITY OF	_) S.S.
X	Y

BID SECURING DECLARATION Invitation to Bid: [Insert Reference number]

To: [Insert name and address of the Procuring Entity]

I/We⁶, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
- 3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - (a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - (b) I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
 - (c) I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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⁶ Select one and delete the other. Adopt the same instruction for similar terms throughout the document.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this day of [month] [year] at [place of execution]. NAME [Insert OF BIDDER'S AUTHORIZED REPRESENTATIVE] [Insert Signatory's Legal Capacity] Affiant SUBSCRIBED AND SWORN to before me this day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. ____ issued on ___ at ___. Witness my hand and seal this ____ day of [month] [year]. NAME OF NOTARY PUBLIC Serial No. of Commission Notary Public for _____until ____ Roll of Attorneys No. PTR No. ____ [date issued], [place issued] IBP No. _____[date issued], [place issued] Doc. No. _____

per

Page No. _____ Book No. ____ Series of

Republic of the Philippines

Government Procurement Policy Board