



higher education
& training
Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



Eastcape
Midlands
TVET College

creating new futures

SCM-022

REQUEST FOR APPROVAL – RFQ / RFP / BID

1. **Project Name:**

2. **Project Code:**

3. **Project Description:** BEC, BAC approval by Accounting

bid: R1 000 000 – And

4. **Project Manager:** BEC, BAC, approval by Accounting Officer

SOURCING OF SERVICE PROVIDER FOR IT EQUIPMENT AND DRONES

Procurement method: Estimated delivery date: 7 Day bidding period

Shorter Bidding

1. BACKGROUND

The ETDP SETA and Eastcape Midlands TVET College (EMC) signed a Memorandum of Understanding (MOU) on March 11, 2024 to establish a 4IR Centre of Excellence. Eastcape Midlands TVET College (EMCOL - COE) to support the institutional strategic goal of teaching unemployed youth, semi-skilled and skilled employees in technologies connected to the Fourth Industrial Revolution

2. PURPOSE

To source a service provider for a computer laboratory which includes physical infrastructure, controlling software and equipment, training, installation, maintenance, support and curriculum for technologies.

3. SPECIFICATION(S)

Detailed specifications and conditions attached for:

Desktops with 24" Monitors	Laptops	Router
HD Webcams	Server	Interactive TV with rolling stand
Wired headsets	Nas storage	24 port rack mounted switch



48 port rack mounted switch	Network tool kit	Surface mount box
24 Port Patch panels	Connectors	USB 3.0 to Dual-bay SATA Docking Station
48 Port Patch panels	Cabling	2,5" 512GB SATA SSD
Cable ties black (100mm)	Cable ties black (200mm)	Laptop locks
Drones	Remote pilot certification	Remote pilot instructor

4. Estimated Costs

#




Details Specifications

A. Desktops with 24" Monitors


EXAMPLE	QUANTITY REQUIRED
	30 x Desktop with 24" Monitors & wired keyboard and mouse combo
Desktops with 24" Monitors Specifications	
Operating system	Windows 11
Processor	Intel 14th Generation Core i5-14600KF (3.5GHz, 44MB Cache, 14x Cores, Turbo 5.3Ghz) CPU Like "MSI PRO B760M-E DDR4 LGA 1700 USB3.2 Intel Motherboard"
Graphics	GeForce RTX 4060 8GB GDDR6 DX12 Graphics Card
Memory	16 GB DDR4-3200 MHz RAM (Transfer rates up to 3200 MT/s.)
Internal Storage	1 TB PCIe® NVMe™ M.2 SSD
Display	24" Monitor with stand and cables
Wireless	Wi-Fi 6 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate)
Network interface	Integrated 10/100/1000 GbE LAN
Ports	Rear 1 USB Type-C® 5Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 2 USB 2.0 Type-A; 1 headphone/microphone combo; 1 RJ-45
Power supply type	500W 80+ High Performance Power Supply
Manufacturer Warranty	Provide manufacturer warranty



B. Webcam


EXAMPLE	QUANTITY REQUIRED
	30 x HD Webcams
1920 x 1080 Resolution CMOS Sensor 2MP Sensor Resolution Built-in Microphone 1.5 m USB Cable Length 95° Super Wide-angle Lens 360° Horizontal Rotation Auto Light Correction	

C. Wired headset

EXAMPLE	QUANTITY REQUIRED
	30 x Wired headset with built in microphone
System Requirements: Windows or Mac OS - USB port Frequency response: Headset: 20 Hz, 20,000Hz - Microphone: 100 Hz - 10,000 Hz - Sensitivity: -40 dBV/Pa +/- 3 dB - Cable length: 6 ft/1.8m - USB	




D. Laptop

EXAMPLE	QUANTITY REQUIRED
	30 x Laptops
Laptop Specifications	
Product type	Notebook
Form factor	Clamshell
Processor family	Series 1 Intel Core Ultra 7
Processor model	155U
Processor Frequency	1.20 / 4.80 GHz (12MB Cache, 12 Cores)
NPU	Intel AI Boost, up to 11 TOPS
Display diagonal	40.6 cm (16")
HD type	WUXGA
Display resolution	1920 x 1200 pixels
Display	Non-Touch, IPS, 300nits, Anti-glare, 45% NTSC
Internal memory	16 GB 5600 MHz (1 x 16 GB)
Internal memory type	DDR5-SDRAM
Total storage capacity	1 TB M.2 2280 PCIe 4.0x4 NVMe Opal 2.0
Storage Type	SSD
On-board graphics adapter model	Intel Graphics
Keyboard	Backlit, English (EU)
Camera	5.0MP + IR Discrete with Privacy Shutter
Operating system installed	Windows 11 Pro
Mobile broadband	Quectel EM061K-GL, 4G LTE CAT6, with Embedded eSIM
Colour	Black
Weight	1.77 kg
Base Warranty	1-year, Courier or Carry-in
Ports	<ul style="list-style-type: none">▪ x USB-A (Hi-Speed USB / USB 2.0)▪ 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one Always On▪ 1x USB-C (USB 20Gbps / USB 3.2 Gen 2x2), with USB PD 3.0 and DisplayPort 1.4



- 1x USB-C (Thunderbolt 4 / USB4 40Gbps), with USB PD 3.0 and DisplayPort 2.1
- 1x HDMI 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x Nano-SIM Card Slot

E. Server


EXAMPLE	QUANTITY REQUIRED
	1x Server
Server Specifications	
Component	Specification
Processor (CPU)	Dual Intel Xeon Scalable (4th Gen, e.g. Gold 6426Y or Platinum 8462Y)
Cores/Threads	Up to 64 cores per CPU (128 total), Hyper-Threading enabled
Memory (RAM)	Up to 2TB DDR5 ECC Registered (32 DIMM slots, scalable with RDIMM/LRDIMM)
Storage	Up to 24 x 2.5" NVMe/SAS/SATA Hot-Plug Drives or 12 x 3.5" Drives
Storage Controller	PERC H755 RAID Controller (RAID 0/1/5/6/10/50/60 support)
Network Interface	Quad-port 1GbE or Dual-port 10/25/100GbE (via mezzanine/adaptor)
Expansion Slots	Up to 8x PCIe Gen5 Slots
GPU Support	Optional: Up to 4x NVIDIA A100 / A40 / T4 GPUs (depending on chassis config)
Remote Management	iDRAC9 Enterprise with Lifecycle Controller
Power Supply	Dual Redundant 1600W Platinum PSU
Cooling	Adaptive fans with advanced thermal controls
RAID Options	Support for software and hardware RAID configurations
Security	TPM 2.0, Secure Boot, System Lockdown, Silicon Root of Trust
Operating System	VMware ESXi, Windows Server 2022, RHEL, Ubuntu, SUSE supported
Chassis	2U Rackmount, tool-less rails and cable management




Weight

Approx. 25–30 kg depending on configuration

F. Nas Storage

EXAMPLE	QUANTITY REQUIRED
	1x Nas Storage <ul style="list-style-type: none">8 bays, 10GbE, Intel Xeon D, up to 32GB RAMSynology Active Backup for Business
NAS Storage Specifications	
<ul style="list-style-type: none">Drive Bays: 6 to 8 bays (expandable to 12 or more)Processor: Quad-core Intel/AMD 64-bit (e.g., Intel Celeron J6412, Xeon D, AMD Ryzen)RAM: Minimum 8 GB DDR4 (upgradeable to 16–32 GB)Network Ports: At least 2 x 1GbE; preferably 1 x 10GbE or SFP+Drive Support: 3.5" SATA HDDs (WD Red Pro / Seagate IronWolf), optional SSD cacheRAID Support: RAID 5 / RAID 6 / SHR Power: Redundant PSU or UPS compatibility	

G. Router

EXAMPLE	QUANTITY REQUIRED
	2 X ROUTER
Routers Specifications	
Processor & Architecture <ul style="list-style-type: none">Multi-core Network Processor (NPU) or high-performance x86 CPU64-bit architecture, multi-threadedHardware-based packet forwarding (ASICs or NPUs) for line-rate performance Memory & Storage <ul style="list-style-type: none">RAM: ≥32 GB (32–128 GB recommended for heavy simulations)Flash/SSD Storage: ≥64 GB SSDOptional: NVMe for fast image loading, logs, and traffic replay Interfaces	



- Multiple 1/10/25/40/100 GbE ports
- Modular slots (for fiber, SFP/SFP+/QSFP modules)
- Serial WAN interfaces (for legacy simulation) if needed
- USB and Console (RJ45 + USB-C) ports

Routing Protocol Support

Full support for:


- OSPFv2 & OSPFv3
- EIGRP
- BGP (iBGP/eBGP, MPLS-VPNs)
- RIP, IS-IS (optional)

Virtualization / SDN

- Virtual routing Instances (VRFs / VRs)
- SD-WAN capability for branch simulation
- NSO / automation Integration

SDN controller support


H. Interactive TV with Rolling Stand

EXAMPLE	QUANTITY REQUIRED
	3 x Interactive TV with Rolling Stand
Interactive TV with Rolling Stand Specifications	
Display Resolution	3840 x 2160 (4K UHD)
Screen Size	65 inches (165.1 cm diagonal)
Panel Type	ADS
Brightness	400 nit (typ.)
Contrast Ratio	1200:1
Response Time	8ms
Viewing Angle	178°/178° (H/V)
Touch Technology	IR (Infrared), up to 40 touch points
Operating System	Android 13, Google EDLA certified (access to Google Play, YouTube, Classroom)
Memory	8GB RAM, 64GB Flash Memory
Connectivity	3 x HDMI In, 1 x HDMI Out, 5 x USB (1x 2.0, 4x 3.0), USB-C (with 65W charging), Wi-Fi, Bluetooth, Ethernet (RJ45 In/Out), RS232 In/Out, Audio In/Out
Built-in Audio	Integrated 15W speakers
Mounting	VESA Mount 600 x 400 mm (wall mount standard)




Dimensions (WxHxD)	1488 x 897 x 88 mm (without stand)
Weight	33.9 kg (without stand)
Special Features	Anti-glare panel (25% haze), low blue light and flicker-free functions (TUV Certified), multi-window/split-screen modes, screen sharing for up to nine devices

I. 24 port rack mounted switch

EXAMPLE	QUANTITY REQUIRED
	4 x 24 port rack mounted Layer 2 switch
48 port rack mounted switch Specifications	
Component	Specification
Switching Capacity	Up to 216 Gbps
Forwarding Rate	Up to 130 Mpps (Million packets per second)
Port Configuration	<ul style="list-style-type: none"> - 24 or 48 x 10/100/1000 Mbps ports - Optional 4 x 1GbE SFP uplink ports
Layer 2 Features	<ul style="list-style-type: none"> - VLANs (802.1Q) - Spanning Tree (STP/RSTP/MSTP) - EtherChannel (LAG) - Up to 32K MAC addresses
Redundancy	Redundant Power System (RPS) supported on XR models
Security	<ul style="list-style-type: none"> - Port Security - 802.1X Authentication - DHCP Snooping - Dynamic ARP Inspection (DAI)
Management	<ul style="list-style-type: none"> - Cisco IOS - CLI & Web UI - SNMP - USB and RJ-45 console ports
PoE Support	PoE/PoE+ up to 740W on 48-port models
QoS	Layer 2 QoS with traffic prioritization and bandwidth control
Energy Efficiency	Cisco EnergyWise & Energy Efficient Ethernet (EEE)
Stacking	Supports Cisco FlexStack-Plus (2960-X) – up to 8 switches
Operating System	Cisco IOS (LAN Base or LAN Lite features)
Chassis	1U rack-mountable with optional rack kits

J. 48 port rack mounted switch



EXAMPLE	QUANTITY REQUIRED
	2x 48 port rack mounted Layer 3 switch

48 port rack mounted switch Specifications


Component	Specification
Switching Capacity	Up to 2.56 Tbps (depending on model)
Forwarding Rate	Up to 1 Bpps (billion packets per second)
Port Configuration	<ul style="list-style-type: none"> - 40 x 10GbE SFP+ - 48 x 1/10/25GbE SFP28 - Optional 100GbE uplinks
Layer 3 Features	<ul style="list-style-type: none"> - Static Routing, OSPF, BGP, EIGRP - Policy-Based Routing (PBR) - Multicast: PIM, IGMP
Virtualization	StackWise Virtual, Virtual Routing and Forwarding (VRF-Lite)
Redundancy	Dual redundant power supplies & fans
High Availability	NSF/SSO, Graceful Restart, ISSU (In-Service Software Upgrade)
Security	<ul style="list-style-type: none"> - TrustSec - 802.1X Authentication - MACSec - Control Plane Policing
Management	<ul style="list-style-type: none"> - Cisco DNA Center - CLI, SNMP, NetFlow, REST APIs - Web UI
Operating System	Cisco IOS XE (modular OS with programmability support)
Uplink Options	SFP+, QSFP+, QSFP28 depending on model
Power Supply	Up to 1100W AC/PoE+ or 1600W high-efficiency PSU (model dependent)
Stacking	StackWise-480/Virtual (Supports up to 2 units in StackWise Virtual)
PoE Support	Yes, up to 60W per port on PoE+ variants
Memory & Storage	16GB DRAM, 16GB Flash
Chassis	1U fixed configuration

K. Patch Panels



EXAMPLE	QUANTITY REQUIRED
	4x24 Port Patch Panels
<p>Ports : 24 RJ-45 (or keystone) ports Rack-Mount size : 1U height (≈ 44 mm) Width : ~ 482 mm (19" standard) Depth : 48-92 mm depending on design Colour : often black powder-coated steel for durability and rack aesthetics. Mounting : EIA 19" rack mounting Labeling:</p>	


L. Patch Panels

EXAMPLE	QUANTITY REQUIRED
	2x 48 Port Patch Panels
<p>Ports : 48 RJ-45 (or keystone) ports Rack-Mount size : 2U of rack Width 482-483 mm (19" standard) Depth : ~ 98mm depth depending on design Colour : often black powder-coated steel for durability and rack aesthetics. Mounting : EIA 19" rack mounting Labeling: numbering of ports front & back to ease identification</p>	


M. Network tool kit

EXAMPLE	QUANTITY REQUIRED
---------	-------------------




	15 x Network tool kit
<p>Network tool kit specification</p> <ul style="list-style-type: none"> • Anti-Static Wrist Strap • 4 x 1/2" Side Cutter • 5" Long Nose Pliers • 6" Wire Stripper • UTP/STP Strip & Cut Tool • Punch Down Tool • Flashlight • 3-in-1 Modular Crimp, Strip & Cut Tool • LAN Cable Tester • Spare Parts Box • Durable Zippered Storage Case 	

N. Connectors


EXAMPLE	QUANTITY REQUIRED
	<p>100 x RJ 45 Connectors 200 x RJ 45 Boots</p>
<p>Allows high density solution</p> <ul style="list-style-type: none"> - Housing: High temperature thermoplastic - Accept 22-26 AWG solid with an insulation diameter of 0.4-0.6mm - Easy to be terminated; low attenuation loss and high return loss - High reliability and superior performance - CAT6E RJ45 - Female-to-Female 	



O. Cabling


EXAMPLE	QUANTITY REQUIRED
	3 x 100m Cat6e LAN cable
<ul style="list-style-type: none">Unshielded twisted pairs Solid Copper CAT6100mGrey & Blue & Yellow	

P. Surface mount box


EXAMPLE	QUANTITY REQUIRED
	30 x CAT 6 Single Surface mount box
<p>Outlet type RJ-45 ICT category Cat. 6 Shielding type Single shielding Mounting method Surface-mounted Material ABS Weatherproof rating IP20 Colour White Certificates CE, EMC, RoHS Width 35 mm Height 30 mm Length 54 mm Weight 25 g Included Accessories Double-sided tape</p>	

Q. USB 3.0 to Dual-bay SATA Docking Station



EXAMPLE	QUANTITY REQUIRED
	2 x USB 3.0 to Dual-bay SATA Docking Station
<p>Supports up to USB 3.2 Gen 2 10Gbps speeds with an appropriate host port, but is backward compatible at respective speeds.</p> <p>Windows 8.1+ for native NVMe support; 7/8 may require an additional patch.</p> <p>Supports M.2 2242, 2260, and 2280 form factors.</p> <p>Dimension</p> <p>Length 6.1 in.</p> <p>Height 2.6 in.</p> <p>Weight 7 oz.</p>	


R. 2.5" 512GB SATA SSD

EXAMPLE	QUANTITY REQUIRED
	2 x 2,5" 512GB SATA SSD




- 512 (1 GB=1 Billion byte by IDEMA)
- 1.5 Million Hours Reliability (MTBF)
- Form Factor 2.5 inch
- Up to 530 MB/s Sequential Write
- Up to 98,000 IOPS Random Read
- Up to 88,000 IOPS Random Write
- Up to 560 MB/s Sequential Read
- 5 Years Limited Warranty

S. Cable ties black (100mm)


EXAMPLE	QUANTITY REQUIRED
	20 x Cable ties black (100mm) pkt
Width: 2.5mm Length: 100mm Finish: Black nylon Contents: 100 pieces	

T. Cable ties black (200mm)


EXAMPLE	QUANTITY REQUIRED
	20 x Cable ties black (200mm) pkt
Width: 2.5mm Length: 200mm Finish: Black nylon Contents: 100 pieces	



U. Laptop Locks

EXAMPLE	QUANTITY REQUIRED
	15x Laptop Locks
<ul style="list-style-type: none">• STD cable diameter 4.4MM• STD cable length -2M• Galvanized high tensile steel• Zinc Alloy lock body with tubular key me• Foam spacer and Velcro strap• 3 Year Warranty	

V. Drones

EXAMPLE	QUANTITY REQUIRED
	3 x DRONES
<p>Aircraft</p> <ul style="list-style-type: none">• Takeoff Weight: 895 g• Dimensions: Folded (without propellers): 221×96.3×90.3 mm (L×W×H), Unfolded (without propellers): 347.5×283×107.7 mm (L×W×H)• Max Ascent Speed: 8 m/s	



- Max Descent Speed: 6 m/s
- Max Horizontal Speed (at sea level, no wind): 21 m/s
- Max Takeoff Altitude: 6000 m
- Max Flight Time: +-46 minutes
- Max Hovering Time: +-40 minutes
- Max Flight Distance: +-30 km
- Max Wind Speed Resistance: 12 m/s
- Max Pitch Angle: 35°
- Operating Temperature: -10° to 40° C (14° to 104° F)
- Global Navigation Satellite System: GPS + Galileo + BeiDou
- Internal Storage: 8 GB

Camera (Hasselblad)

Image Sensor: 4/3 CMOS, Effective Pixels: 20 MP

- Lens: FOV: 84°, Format Equivalent: 24 mm, Aperture: f/2.8-f/11, Focus: 1 m to ∞
- ISO Range:
 - **Video:**
 - Normal, Slow-motion:
 - 100-6400 (normal color)
 - 400-1600 (D-Log)
 - 100-1600 (D-Log M)
 - 100-1600 (HLG)
 - Night Mode: 800-12800 (normal color)
 - **Photo:** 100-6400
- Shutter Speed: Electronic Shutter: 8-1/8000 s
- Max Image Size: 5280×3956
- Still Photography Modes:
 - Single Shot: 20 MP
 - Burst Shooting: 20 MP, 3/5/7 frames
 - Automatic Exposure Bracketing (AEB): 20 MP, 3/5 frames at 0.7 EV step
 - Timed: 20 MP, 2/3/5/7/10/15/20/30/60 s
- Photo Format: JPEG/DNG (RAW)
- Video Resolution:
 - H.264/H.265
 - 5.1K: 5120×2700@24/25/30/48/50 fps
 - DCI 4K: 4096×2160@24/25/30/48/50/60/120* fps
 - 4K: 3840×2160@24/25/30/48/50/60/120* fps
 - FHD: 1920×1080@24/25/30/48/50/60/120*/200* fps
- Video Format: MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)
- Max Video Bitrate: H.264/H.265: 200 Mbps
- Supported File System: exFAT



- Color Mode: Normal/HLG/D-Log/D-Log M
- Digital Zoom: 3×

Gimbal

- Stabilization: 3-axis mechanical gimbal (tilt, roll, pan)
- Mechanical Range:
 - Tilt: -135° to 100°
 - Roll: -45° to 45°
 - Pan: -27° to 27°
- Controllable Range:
 - Tilt: -90° to 35°
 - Pan: -5° to 5°
- Max Control Speed (tilt): 100°/s
- Angular Vibration Range: $\pm 0.007^\circ$

Sensing

- Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft
- Forward:
 - Measurement Range: 0.5-20 m
 - Detection Range: 0.5-200 m
 - Effective Sensing Speed: Flight Speed ≤ 15 m/s
 - FOV: Horizontal 90°, Vertical 103°
- Backward:
 - Measurement Range: 0.5-16 m
 - Effective Sensing Speed: Flight Speed ≤ 12 m/s
 - FOV: Horizontal 90°, Vertical 103°
- Lateral:
 - Measurement Range: 0.5-25 m
 - Effective Sensing Speed: Flight Speed ≤ 15 m/s
 - FOV: Horizontal 90°, Vertical 85°
- Upward:
 - Measurement Range: 0.2-10 m
 - Effective Sensing Speed: Flight Speed ≤ 6 m/s
 - FOV: Front and Back 100°, Left and Right 90°
- Downward:
 - Measurement Range: 0.3-18 m
 - Effective Sensing Speed: Flight Speed ≤ 6 m/s
 - FOV: Front and Back 130°, Left and Right 160°
- Operating Environment:



- Forward, Backward, Left, Right, and Upward: surfaces with discernible patterns and adequate lighting (lux >15)
- Downward: surfaces with discernible patterns, diffuse reflectivity >20% (e.g. walls, trees, people), and adequate lighting (lux >15)

Video Transmission System

- Video Transmission System: O3+
- Live View Quality: Remote Controller (1080p/30fps, 1080p/60fps)
- Operating Frequency: 2.400-2.4835 GHz, 5.725-5.850 GHz
- Transmission Power (EIRP):
 - 2.400-2.4835 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC)
 - 5.725-5.850 GHz: < 33 dBm (FCC), < 30 dBm (SRRC), < 14 dBm (CE)
- Max Transmission Distance (free of interference):
 - FCC: 15 km
 - CE: 8 km
 - SRRC: 8 km
 - MIC: 8 km
- Max Transmission Distance (with interference)
 - Strong Interference: urban landscape, approx. 1.5-3 km
 - Medium Interference: suburban landscape, approx. 3-9 km
 - Low Interference: suburb/seaside, approx. 9-15 km
- Max Download Speed:
 - O3+: 5.5 MB/s (with DJI RC-N1 Remote Controller), 15 MB/s (with DJI RC Pro), 5.5 MB/s (with DJI RC)
 - Wi-Fi 6: 80 MB/s*
- Lowest Latency:
 - 130 ms (with DJI RC-N1 Remote Controller)
 - 120 ms (with DJI RC Pro)
 - 130 ms (with DJI RC)
- Antennas: 4 antennas, 2T4R

Battery (Li-ion 4S)

- Capacity: 5000 mAh (NB: requesting for one Additional set of batteries per drone)

To include:

Applicable warranties, Battery Charging Hub, Cabling, Accessories etc.

W. Remote Pilot Licence Training



NO.	SPECIFICATIONS OF REQUIRED GOODS OR SERVICES	QTY REQ
	Request For Remote Pilot Licence Training for Drone Course Lecturers	
1.	<p>Remote Pilot Certification</p> <p>The following must be included:</p> <ul style="list-style-type: none"> • Disbursements and Administrative costs • Theoretical training (all required subjects, including 3 days Radio Telephony) • Class 3 Medical (Aviation and X-Ray) • Language Proficiency Assessment • Drone Flight Training on registered Drones • Radio Telephone Licence • Designated Flight Examiner (DFE) fee per single type • On-line Exam Fee • RPL application fee <p>Phase 1 – Remote Pilot Licence Ground School Course:</p> <ul style="list-style-type: none"> • Complete Remote Pilot Licence Ground School • All Course Material • Class 3 Medical • All Examination costs are included – maximum of three (3) attempts per subject per exam. • Restricted Radio online exam and Radio telephony test • Language Proficiency test <p>Phase 2 – Remote Pilot Practical Course:</p> <ul style="list-style-type: none"> • Registered drones for Remote Pilot Flying • All Pre and Post Flight Briefings • Transport to registered airfield • 5 Hours of Flight Training <p>Phase 3 – Remote Pilot Flight Skills Proficiency Test:</p> <ul style="list-style-type: none"> • Registered drones for Remote Pilot Flying • All Pre and Post Flight Briefings • Transport to registered airfield • 2 Hours for Final Flight Test with DFE • Issue of SACAA Remote Pilot Licence 	2
2.	<p>Instructor Rating</p> <p>Phase 1 – Remote Instructor Ground School Course:</p>	2



Train the Trainer Course

- Air Briefings Lectures
- Debriefing Lectures

Phase 2 – Remote Pilot Practical Course:

- Registered drones for Remote Pilot Flying
- All Pre and Post Flight Briefings
- Transport to registered airfield
- 3 x Hours of Flight Training

Phase 3 – Remote Pilot Flight Skills Proficiency Test:

- Registered drones for Remote Pilot Flying
- All Pre and Post Flight Briefings
- Transport to registered airfield
- 2 Hours for Final Flight Test with DFE
- Issue of SACAA Remote Pilot Licence Instructor Rating

Annexure A

FUNCTIONALITY CRITERIA	POINTS ALLOCATED
<p>Provide three (3) contactable references</p> <ul style="list-style-type: none"> • Of contracts of similar value and service • For the past three (3) years: • Letters must be clearly dated • Letters must not come from same company <p>3 references verified = 10 Points 2 references verified = 0.5 Points 1 reference verified = 2.5 Points No evidence provided = 00 Points</p>	<p>10</p>
<p>Desktops with 24' Monitors</p>	



<p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
<p>HD Webcams</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
<p>Wired headsets</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
<p>Laptops</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
<p>Server</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p>	5



<ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	
Nas storage Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Router Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Interactive TV with rolling stand Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
24 port rack mounted switch Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5



48 port rack mounted switch Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
24 Port Patch panels Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
48 Port Patch panels Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Network tool kit Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Connectors Bidders are required to meet all of the machine specifications to score all points available.	5



<ul style="list-style-type: none"> ○ Meets none of the Specifications = 0 Points ○ Meets only some of the main specifications = 0.5 Points ○ Meets all of the specifications = 5 Points 	
<p>Cabling</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none"> ○ Meets none of the Specifications = 0 Points ○ Meets only some of the main specifications = 0.5 Points ○ Meets all of the specifications = 5 Points 	5
<p>Surface mount box</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none"> ○ Meets none of the Specifications = 0 Points ○ Meets only some of the main specifications = 0.5 Points ○ Meets all of the specifications = 5 Points 	5
<p>USB 3.0 to Dual-bay SATA Docking Station</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none"> ○ Meets none of the Specifications = 0 Points ○ Meets only some of the main specifications = 0.5 Points ○ Meets all of the specifications = 5 Points 	5
<p>2,5" 512GB SATA SSD</p> <p>Bidders are required to meet all of the machine specifications to score all points available.</p> <ul style="list-style-type: none"> ○ Meets none of the Specifications = 0 Points ○ Meets only some of the main specifications = 0.5 Points ○ Meets all of the specifications = 5 Points 	5



Cable ties black (100mm) Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Cable ties black (200mm) Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Desktops with 24' Monitors Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Laptop locks Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points	5
Drones Bidders are required to meet all of the machine specifications to score all points available.	5



<ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points		
Remote pilot certification Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points		5
Remote pilot instructor Bidders are required to meet all of the machine specifications to score all points available. <ul style="list-style-type: none">○ Meets none of the Specifications = 0 Points○ Meets only some of the main specifications = 0.5 Points○ Meets all of the specifications = 5 Points		5