

TERMS OF REFERENCE ANNEXURE A

1. **Address for delivery**
 - a) **All equipment will be transported to OR Tambo Building, 460 Soutpansberg Road, Rietondale Pretoria**
2. **Number of devices and Type**

<u>Type of Equipment</u>	<u>Number of Devices</u>
Executive 2 in 1 Laptop	54
Docking Station and Accessories	54
High Spec Laptop	6
Mid-range Laptop	259
Normal laptop	624
Normal Desktop	559
Mid-range Desktop	37
	1584

TERMS OF REFERENCE ANNEXURE B

3. SYSTEM SPECIFICATIONS

a. Desktop Specifications

DESKTOP SPECIFICATION - NORMAL USER		
User Profile	Typical Application	Configuration
General/Power User, Higher data/volume requirement, larger/more applications, multitasking, knowledge worker	Business Applications, Web, Email and office	All-In-One Desktop (built-in Form factor)
Component		Minimum Configuration
CPU Base	Latest generation Intel® Core™ i5-8500 (9MB Cache, 3.40 GHz) or Similar	
FSB	2400	
Base RAM	8GB DDR4 at 2400MHz (1x8GB)	
HDD	500GB 7200rpm SATA	
Crypto Processor Trusted Platform Module	Minimum ver 1.2	
Graphics	Integrated Intel, with PCIe option	
Monitor	21.5" WLED, 1920x1080 FHD, 250 nit, Antiglare	
Standard Keyboard	Keyboard with Number Pad	
Standard Mouse	USB 2 button with wheel	
Inputs	1 x USB3.1 Type A Gen2 with 1 rapid charge	
	4 x USB 3.1 Type-A Gen1 with one support USB Smart Power On	
	1 x headphone and microphone combo jack	
Audio	Internal Speakers	
Networking	10/100/1000 Gigabit Ethernet	
Operating System certification	Windows 10 or Latest	
Power supply	110 - 240V 50/60mhz	
Power savings	Enabled by default, incl. Hibernate	
Form Factor	All-In-One	
Warranty	5 years onsite next business day warranty	
Power cable	Country compliant	

- All electrical connections must comply with the local power standards/requirements of the in country.
- Provide local language keyboards

DESKTOP SPECIFICATION – MID RANGE BUSINESS USER

User Profile	Typical Application	Configuration
ICT Engineer, ICT Support, High end business users, Graphics designers, Web developers and content managers	Business Applications, Web, Email and office. ICT applications, Virtual machines and back office applications	All-In-One (Built-in, Mid-range)
Component	Minimum Configuration	
CPU Base	Latest generation Intel® Core™ i7-8500 (9MB Cache, 3.40 GHz) or Similar	
FSB	2666	
Base Ram	16GB DDR4 at 2666 MHz (1x16GB)	
HDD	500 GB SSD	
Crypto Processor Trusted Platform Module	Minimum ver 1.2	
Graphics	Integrated Intel, with PCIe option	
Monitor	23" 1920 x 1080 FHD, WLED, 250nits, Antiglare	
Standard Keyboard	Keyboard with Number Pad (See Annexure D)	
Inputs	1 x USB3.1 Type A Gen2 with 1 rapid charge	
	4 x USB 3.1 Type-A Gen1 with one support USB Smart Power On	
	1 x headphone and microphone combo jack	
Standard Mouse	USB 2 button with wheel	
Audio	Internal Speakers	
Networking	10/100/1000 Gigabit Ethernet	
Power supply	110 - 240V 50/60mhz	
Power savings	Enabled by default, incl. Hibernate	
Form Factor	All-In-One built-in	
Warranty	5 years onsite next business day service warranty	
Power Cable	Country compliant	

- All electrical connections must comply with the local power standards/requirements of the in country.
- Provide local language keyboards

b. Laptop Specifications

LAPTOP SPECIFICATION – 2 in 1 Executive		
User Profile	Typical Application	Configuration
Executive	Business Applications, Web, Email and office	2 in 1 executive Laptop
Component	Minimum Configuration	
CPU base	Latest generation Intel Core i7-8565U or Similar	
RAM	16GB LPDDR3 2133MHz On-board	
HDD	500GB PCIe SSD	
Security	Minimum TPM ver 1.2	
	Finger print reader	
Graphics	Integrated	
Monitor	14.0 FHD (1920x1080), IPS, AR/AS, 400nits, Multi-touch	
Camera	HD + IR camera with ThinkShutter	
Audio	Dolby® Atmos™ Speaker System	
	4 x 360-degree Microphones	
Wireless LAN	Intel Wireless-AC 9560 2x2 AC, Bluetooth Version 5.0 vPro Onboard	
Wireless WAN	LTE Fibocom L850-EB	
Ethernet Dongle	RJ45 Extension Connector	
Graphic Dongle	HDMI to VGA	
Input/ Output Ports	2 x Thunderbolt 3	
	2 x USB 3.1	
	1 x HDMI	
	1 x headphone and microphone combo jack	
Battery	Up to 18 hours working period with Rapid Charge	
Operating system certification	Windows 10	
Power management	110- 240v 50/60Mhz	
Warranty	5 years onsite next business day service warranty	
Power Cable	Country compliant	
Pen	Integrated and optional ThinkPad Pens	

- All electrical connections must comply with the local power standards/requirements of the in country.
- The bidders shall supply an additional 10% of power adaptors for all laptops.

LAPTOP SPECIFICATION – NORMAL USER		
User Profile	Typical Application	Configuration
General/Power User, Higher data/volume requirement, larger/more applications, multitasking, knowledge worker	Business Applications, Web, Email and office	15" Laptop
Component	Minimum Configuration	
CPU base	Latest generation Intel® CoreT i5-8500 (9MB Cache, 3.40 GHz) or Similar	
RAM	8GB DDR4 at 2400MHz	
HDD	500GB PCIe SSD	
Security	Minimum TPM ver 1.2	
	Finger print reader	
Graphics	Integrated	
Video RAM	2GB	
Monitor	15.6 " FHD IPS (1920x1080) Antiglare 250nit	
Camera	HD Camera	
Audio	Internal speakers	
Networking	10/100/1000BTx / Wi-Fi, Wireless-N LAN card (1x1),Bluetooth, built-in LTE/4G	
Input/ Output Ports	1 x Thunderbolt 3	
	1 x USB-C	
	2 x USB 3.0	
	1 x HDMI	
	1 x headphone and microphone combo jack	
	1 X VGA	
Battery	Up to 11 hours working period with Rapid Charge	
Mouse	USB Mouse	
Operating system certification	Windows 10	
Power management	110- 240v 50/60Mhz	
Warranty	5 years onsite next business day service warranty	
Power Cable	Country compliant	

- All electrical connections must comply with the local power standards/requirements of the in country.
- The bidders shall supply an additional 10% of power adaptors of all laptops.
- The bidders shall supply the security cable and lock.

LAPTOP SPECIFICATION – MID RANGE BUSINESS USER

User Profile	Typical Application	Configuration
ICT Engineer, ICT Support, High end business users, Graphics designers, Web developers and content managers	Business Applications, Web, Email and office Software Development Systems and Network Tools	17" laptops
Component		Minimum Configuration
CPU	Latest generation Intel® Core™ i7-8500 (9MB Cache, 3.40 GHz) or Similar	
RAM	16 GB 2666 MHz DDR4	
HDD	256GB PCIe SSD	
Crypto Processor Trusted Platform Module	Minimum ver 1.2	
Security	Finger print reader	
Graphics	Integrated	
Video RAM	4 GB	
Monitor	17" with built-in high definition video camera	
Networking	10/100/1000BTx / Wi-Fi, Wireless-N LAN card (1x1)	
Input/ Output Ports	1 x Thunderbolt 3	
	1 x USB-C	
	2 x USB 3.0	
	1 x HDMI	
	1 x headphone and microphone combo jack	
Mouse	USB Mouse	
Operating system Certification	Windows 10	
Power management	110 – 240v 50/60Mhz	
Display output	VGA and HDMI	
Battery	Up to 11 hours working period with Rapid Charge	
Warranty	5 years onsite next business day service warranty	
Power Cable	Country Compliant	
Security Slot Type	Kensington lock slot\ Noble Wedge lock slot	

- All electrical connections must comply with the local power standards/requirements of the in country.
- The bidders shall supply an additional 10% of power adaptors of all laptops.
- The bidders shall supply the security cable and lock.

LAPTOP SPECIFICATION – HIGH RANGE BUSINESS USER		
User Profile	Typical Application	Configuration
ICT Engineer, ICT Support, High end business users, Graphics designers, Web developers and content managers	Business Applications, Web, Email and office Software Development Systems and Network Tools	17" laptops
Component		Minimum Configuration
CPU		Latest generation Intel® Core™ i7-8500 (9MB Cache, 3.40 GHz) or Similar
RAM		32 GB 2666 MHz DDR4
HDD		500G PCIe SSD
Crypto Processor Trusted Platform Module		Minimum ver 1.2
Security		Finger print reader
Graphics		Integrated
Video RAM		4 GB
Monitor		17" with built-in high definition video camera
Networking		10/100/1000BTx / Wi-Fi, Wireless-N LAN card (1x1)
Input/ Output Ports		1 x Thunderbolt 3
		1 x USB-C
		2 x USB 3.0
		1 x HDMI
		1 x headphone and microphone combo jack
Mouse		USB Mouse
Operating system Certification		Windows 10
Power management		110 – 240v 50/60Mhz
Display output		VGA and HDMI
Battery		Up to 11 hours working period with Rapid Charge
Warranty		5 years onsite next business day service warranty
Power Cable		Country Compliant
Security Slot Type		Kensington lock slot\ Noble Wedge lock slot

- All electrical connections must comply with the local power standards/requirements of the in country.
- The bidders shall supply an additional 10% of power adaptors of all laptops.
- The bidders shall supply the security cable and lock.

Docking Station Specification	
Component	Minimum Configuration
Linkage	Docking stations for the Executive Laptops
Systems Management	Wireless vPro supported by Notebook or Workstation
Docking Interface	USB-C
Video interfaces	2X Full size DP1.4
	HDMI™ 2.0
	MFDP USB-C
	VGA
Video Support	4K @ 60 Hz ²
USB Ports	USB-A 3.1 Gen 1
	USB-A 3.1 Gen 2
	USB-C
MAC Address	Pass Through MAC Address
Audio Ports	Stereo/Microphone combo
Networking	Gigabit Ethernet
Security Slot Type	Kensington lock slot\ Noble Wedge lock slot
Power management	Power Adapter 130 Watt AC with up to 90 Watts power delivery
Warranty	5 years onsite next business day service warranty
Management features	PXE Boot
	Wake-On-LAN
	MAC address pass-through
	Port Disablement
	Wake-On-Dock button

Docking Station Accessories		
Monitor	Display	
	Panel Size	23.8" Wide
	Panel Type	IPS (In-plane switching)
	Anti-Glare	Yes
	Flicker less	Yes
	Signal Input	
	Video Input Signals	2 x HDMI
		USB-C
	Accessories	
	Video Cables Supplied	USB-C (1.8 m)
		HDMI
	Compliance	
	Arsenic-Free Glass	Yes
	PVC-Free	Yes
	Mercury-Free	Yes

Wireless Keyboard and Mouse	Keyboard	
	Dimensions (H x L x W)	27.87 x 460.3 x 164.3 mm (1.09 x 18.1 x 6.47 in)
	Weight	880 g (1.94 lb)
	System requirements	Windows 8.1, Windows 10
	Wireless connections encryption	Secure 128bit AES Encryption between device and receiver
	Mouse	
	Dimensions (H x L x W)	8.4 x 45.5 x 18.4 mm (0.33x 1.79 x 0.72 in)
	Weight	67 g (0.15 lb)
	System requirements	Windows 8.1, Windows 10
	Sensor technology	Advanced optical tracking
	Receiver	
	Type	USB Nano receiver
	Wireless range	10 meters

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- The bidders shall supply the security cable and lock

TERMS OF REFERENCE ANNEXURE C

Service Category and Description	Service Availability	Service Entity Responsibility		Pricing Guidance
		Provider	DIRCO	
Asset Tagging Tag all new Devices with DIRCO standard asset tags	8:00 am to 17:00 Pm (GMT +2) Monday through Friday, excluding public holidays	Attach an asset tag to each new DEVICE or device prior to delivery.	Provide Asset tags standards. Provides Asset Tags.	<ul style="list-style-type: none"> Included in pricing model.
Call Logging	8:00 am to 17:00 Pm (GMT +2) Monday through Friday, excluding public holidays	Provide Faxing , Telephone, Portal and E-mail call logging capabilities	Log hardware faults with the supplier	<ul style="list-style-type: none"> Included in pricing model.
Hardware Break/Fix Repairs Facilitate the repair of all hardware related faults for in scope devices, and peripherals	8:00 am to 17:00 pm Globally according to local GMT Monday through Friday, excluding public holidays	<ul style="list-style-type: none"> Tier 4 Troubleshooting, diagnoses and resolution for all in scope hardware devices. 24/7 Call logging portal. Onsite Repair onsite and replacement of parts. Should the faulty device require parts that will need to be shipped; the bidder/s must provide a loan device to ensure service continuity No Hard Drive may be removed from the premises. Hard Drive remains the property of DIRCO 	<ul style="list-style-type: none"> Log hardware faults with the supplier Conduct appropriate tests of repaired device to ensure the device is operating appropriately Provide Completion Certificate for resolved incident 	<ul style="list-style-type: none"> Included in base cost for HW in warranty Time and Material for HW out of warranty

Service Category and Description	Service Availability	Service Entity Responsibility		Pricing Guidance
		Provider	DIRCO	
Minimum Time to respond to fault	8:00 am to 17:00 pm Globally according to local GMT Monday through Friday, excluding public holidays	<ul style="list-style-type: none"> Conduct appropriate tests of repaired device to verify correct operation. Address recurring problems, performing root cause analysis and introducing modifications to the product configuration to resolve them, at your own cost. To this end, the manufacturer is required to maintain an ongoing register of recurring problems and issues requiring attention, including remedial actions decided on and progress towards implementation. 	Confirm to call logging processes	Included in pricing model.
Time to resolve hardware fault	8:00 am to 17:00 pm Globally according to local GMT Monday through Friday, excluding public holidays	<ul style="list-style-type: none"> 8 Hours (Working Hours) Provide resolution reports 	<ul style="list-style-type: none"> Monitor the services Confirm resolution 	Included in pricing model.

