SCOPE OF WORK

Document Reference	Title	No of pages
	SUPPLY AND DELIVERY OF ADDITIONAL COMPUTING EQUIPMENT (LAPTOPS, MONITORS, DOCKING STATIONS, WIRELESS KEYBOARDS AND WIRELESS MOUSE)	6
	Total number of pages	6

1 INTRODUCTION

Transnet Port Terminals (TPT) an operating division of Transnet SOC Ltd invites suitable and accredited service providers to submit written proposals for the supply and delivery of laptops and desktops as per the attached specifications listed in Annexure A and A2 below.

2 BACKGROUND

Transnet Port Terminals (TPT) uses laptops and desktops for staff to execute their daily tasks across all terminals in South Africa.

It is essential that the computer infrastructure is constantly maintained and kept up to date in order to enable the 24/7 operations of the organization.

3 SCOPE OF WORK

The service provider must supply the equipment as listed in Table 1 below.

Item Description	Model	Quantity
Laptops – Intel i9	Laptop Specialized – Enterprise Business Range	30
Laptops – Intel i7	Executive Laptop -Touch – Enterprise Business Range	20
Display Monitors	27" Screens	22
Wireless Bluetooth Keyboard	6 ROW SPILL RESISTANCE. LED BACKLIGHT	22
Wireless Bluetooth USB Mouse	n/a	22
Docking Stations	C Dock	50

* Full Specifications are included in Annexure A

3.1 Hardware and Software Standards

3.1.1. All laptops and desktops must comply to Transnet standard image as per the Annexure provided.

3.2 Deliverables

3.2.1. Supply and deliver equipment as per quantities and in compliance to specifications provided in Annexure A

3.2.2. All laptops and desktops must be configured with the latest Windows 11 64-bit build.

3.2.3. All laptops and desktops must ship with an onsite next business day - 3-year warranty

3.2.4. All laptops must have a display card: 8 GB GPU with 106 GB/s Bandwidth and DirectX 12 compliant

4 ADDITIONAL REQUIREMENTS

4.1.1. Business Partner Certification or Reseller Authorization Letter from an OEM and/or accredited distributor to be attached to tender.

4.1.2. The bidder must supply enterprise business range products and not consumer range products, model numbers to be supplied [this will be vetted at evaluation stage].

4.1.3. The bidder must supply a single OEM product across the entire order.

4.1.4. The bidder must submit proof of having provided a similar service in the last 3 years.

4.1.5. Three (3) year onsite warranty with next business day support.

5 APPROVALS

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ANNEXURE A

EXECUTIVE LAPTOP - TOUCH – ENTERPRISE BUSINESS RANGE

PROCESSOR – 12TH GENERATION	INTEL i7
CHIPSET	12TH GENERATION
MEMORY	16 GB
STORAGE	500 GB M2 SSD
INTERNAL 4G/LTE WLAN	YES
SD CARD CAPABLE	OPTIONAL
TPM SECURITY CHIP BITLOCKER CERTIFIED	YES VERSION 2.0 OR HIGHER
INTEL HD GRAPHICS ADAPTOR	YES
DISPLAY SIZE - HD PLUS	14 INCHES
WIFI 11AC	YES
BLUETOOTH 4.1	YES
INCLUDED POWER SUPPLY	YES
THUNDERBOLT PORT	YES
INCLUDED BATTERY	YES
SECURITY FINGERPRINT READER	YES
BUILT IN SPEAKERS	YES
BUILT IN WEBCAM 720HD	YES
CARRY CASE	YES
KEYBOARD - 6 ROW SPILL RESISTANCE. LED BACKLIGHT	YES
WIRELESS USB MOUSE	YES
RED PLUG	YES
KENSINGTON LOCK	YES
USB 3.0 X 2 (MINIMUM)	YES
HDMI INTERFACE WITH VGA ADAPTOR	YES
TOUCH SCREEEN	YES
RJ 45 ETHERNET PORT	YES
BUILT IN MICROPHONE	YES
WINDOWS 11 ENTERPRISE BUILD 21H2	YES
3 YEAR ONSITE WARRANTY	YES
DOCKING STATION	INCLUDED

LAPTOP SPECIALISED – ENTERPRISE BUSINESS RANGE

PROCESSOR – 12th GENERATION	INTEL i9
CHIPSET	12th GENERATION
MEMORY	64GB
STORAGE	4 TB M2 SSD
INTERNAL 3G/LTE WLAN	5G OR LTE
SD CARD CAPABLE	OPTIONAL
TPM SECURITY CHIP BITLOCKER CERTIFIED	VERSION 2.0 OR HIGHER
INTEL HD GRAPHICS ADAPTOR	YES
DISPLAY SIZE - HD PLUS	16 INCHES OR GREATER
SLIMLINE	YES
WIFI 11AC	YES
BLUETOOTH 4.1	YES
INCLUDED POWER SUPPLY	YES
THUNDERBOLT PORT	YES
INCLUDED BATTERY	YES – 6 CELL
SECURITY FINGERPRINT READER	YES
BUILT IN SPEAKERS	YES
BUILT IN WEBCAM 1080HD	YES
CARRY CASE	YES
KEYBOARD - 6 ROW SPILL RESISTANCE. LED BACKLIGHT	YES
WIRELESS USB MOUSE	YES
RED PLUG	YES
KENSINGTON LOCK	YES
USB 3.0 X 2 (MINIMUM)	YES
HDMI INTERFACE WITH VGA ADAPTOR	YES
TOUCH SCREEEN	NO
RJ 45 ETHERNET PORT	YES
BUILT IN MICROPHONE	YES
WINDOWS 11 ENTERPRISE BUILD 21H2	YES
3 YEAR ONSITE WARRANTY	YES
DOCKING STATION	INCLUDED
EXTERNAL DISPLAY MONITOR	27" 4K SCREEN WITH THUNDERBOLT 4

Annexure A2: Minimum Required Machine Specification for Civils 3D 2023 (on Intel 9 Only)

System requirements for Civil 3D 2023	
Operating System	64-bit Microsoft® Windows® 11 or Windows 10 version 1809 or above. See Autodesk's Product Support Lifecycle for support information.
Processor	**Minimum**: 2.5–2.9 GHz processor (base) ARM Processors are not supported. **Recommended**: 3+ GHz processor (base), 4+ GHz (turbo)
Memory	**Basic**: 8 GB **Recommended**: 16 GB
Display Resolution	**Conventional Displays**: 1920 x 1080 with True Color **High Resolution & 4K Displays**: Resolutions up to 3840 x 2160 (with capable display card)
Display Card	**Basic**: 1 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant **Recommended**: 4 GB GPU with 106 GB/s Bandwidth and DirectX 12 compliant DirectX 12 with Feature Level 12_0 is required for Shaded(Fast) and Shaded with edges(Fast) visual styles Please be sure to use the latest video card manufacturer drivers from their website.
Disk Space	20 GB (suggested SSD)
Network	See Autodesk Network License Manager for Windows
Pointing Device	MS-Mouse compliant
.NET Framework	.NET Framework Version 4.8 or later

Additional Requirements for large datasets, point clouds, and 3D modeling	
Memory	16 GB RAM or more
Disk Space	6 GB free hard disk available, not including installation requirements
Display Card	3840 x 2160 (4K) or greater True Color video display adapter; 4 GB VRAM or greater; Pixel Shader 3.0 or greater; DirectX-capable workstation class graphics card.