المُلحق رقم (1)
المواصفات الفنية و الأصناف المطلوبة

Option 1: Core i5 / Ryzen 5

Use Case	**Office, Oracle Forms/Reports, Excel, Web**

Component / Feature	**Desktop PC – i5 / Ryzen 5**
CPU	Intel Core i5->=14400 / AMD Ryzen 5 >= 7600
RAM	16 GB DDR4/DDR5 (2×8 GB)
Primary Storage	1TB NVMe SSD
Graphics	Integrated (Intel UHD / AMD Radeon)
Display	External 27” FHD / QHD
Keyboard & Mouse	Included (wired or wireless)
Ethernet	Gigabit RJ-45
Wi-Fi	Wi-Fi 6
USB Ports	Multiple USB-A + USB-C (front/back)
Operating System	Windows 10 Pro(needed for old prog of 32bit)
Warranty	1-Year parts & labor

Option 2: Core i7 / Ryzen 7 **recommended**

Use Case	**Office, Oracle Forms/Reports, Excel, Web + heavier multitasking**

Component / Feature	**Desktop PC – i7 / Ryzen 7**
CPU	Intel Core i7 >=-14700 / AMD Ryzen 7 >=7700X/7800
RAM	16GB DDR4/DDR5
Primary Storage	1TB NVMe SSD
Graphics	Integrated (Intel UHD / AMD Radeon)
Display	External 27" FHD / QHD
Keyboard & Mouse	Included (wired or wireless)
Ethernet	Gigabit RJ-45
Wi-Fi	Wi-Fi 6
USB Ports	Multiple USB-A + USB-C (front/back)
Operating System	Windows 10 Pro(needed for old prog of 32bit)
Warranty	1-Year parts & labor

Option 3: Core i7 / Ryzen 7 **recommended**

PC Specification for high performance and AutoCAD

Use Case	**Medium 3D, moderate rendering**

Component / Feature	**Desktop – i7 / Ryzen 7**
CPU	Intel Core i7-14700) / Ryzen 7 7 9800X3D
RAM	**32 GB DDR4/DDR5 upgradbale**
Primary Storage	2 TB NVMe SSD
Graphics (GPU)	NVIDIA RTX 3060 / AMD RX 6600
Display	27” QHD / 4K
Keyboard & Mouse	Included
Ethernet	Gigabit RJ-45
Wi-Fi	Wi-Fi 6
USB Ports	USB-A + USB-C
Operating System	Windows 10 Pro (prefered) or windows 11 pro
Warranty	1-Year

option 1
Laptop Specification for Office + Oracle Forms

Use Case	Office, Oracle Forms/Reports, Excel, Web + heavier multitasking
Component / Feature	**Recommended Detail**
Processor (CPU)	Intel Core Ultra 7 155U or AMD Ryzen 7 7800HS / 7840HS
Cores / Threads	12–16 cores / 14–20 threads (Intel/AMD hybrid architecture)
Base Clock / Boost	Intel: ~1.8 GHz base / up to ~4.8 GHz boost AMD: ~4.0–4.7 GHz boost
Operating System	Windows 10 Pro (preferred) or Windows 11 Pro
RAM (Memory)	16 GB DDR5 (upgradeable to 32 GB or 64 GB)
Storage	1 TB NVMe SSD
Graphics	Integrated Intel / AMD graphics
Display	16” WUXGA / 16:10 IPS, 1920×1200 resolution, anti -glare
Ethernet	RJ-45 via built-in port or USB adapter
Connectivity	Wi-Fi 6 / 6E, Bluetooth 5.x
USB Ports	Multiple USB-A + USB-C / Thunderbolt 4
Battery	≥ 60 Wh (modern high-capacity for 6–8 h typical use)
Security	TPM 2.0, optional fingerprint reader, webcam privacy shutter
Included Accessories	USB-to-Gigabit Ethernet adapter if laptop has no RJ-45 port
Warranty	1-Year minimum (parts & labor)

option 2

Laptop Specification for AutoCAD (Office / Professional Use)

Use Case	**AutoCAD (2D/3D),multitask**

Component	**Specification**
Processor (CPU)	Intel Core Ultra 9 275HX (24 cores: 8P + 16E / 24 threads) – up to 5.4 GHz Turbo, 36 MB cache
Graphics (GPU)	NVIDIA GeForce RTX 5060, 8 GB GDDR7
System Memory (RAM)	32 GB DDR5-5600
Storage	1 TB NVMe SSD (PCIe 4.0×4)
Display	16.0” WQXGA (2560×1600) IPS
Ports	2× USB-A (USB 3.2), 1× USB-A (Gen 2, Always On), 1× USB-C (Gen 2, PD & DP), 1× USB-C (Thunderbolt 4/USB4), HDMI 2.1, RJ-45 Ethernet, 3.5 mm audio
Wireless / Bluetooth	Wi-Fi 7 (802.11be) + Bluetooth 5.4
Keyboard	RGB backlit keyboard (24-zone)
Operating System	Windows 11 Home 64-bit
Battery	~80 Wh Li-ion — ~2–4 hrs under heavy CAD/3D, longer with light work
Warranty	1 Year (local)
Use Case	AutoCAD (2D/3D), Oracle Forms/Reports/APEX, SQL Developer, multitask
Notes	Ideal for engineering/design + developer workflows
Included Accessories	USB 3.0 Gigabit Ethernet Adapter — adds wired LAN port for office networks
Warranty	1-Year minimum

all in one laser printer— Specification Table

Use Case	Small/medium office — documents, scanning stacks, copying, fax

Specification	Details
Functions	Print, Scan, Copy, Fax (4-in-1)
Printer Type	Monochrome Laser
Print Speed	Up to 30 pages per minute (ppm)
Print Resolution	600 × 600 dpi, HQ1200 (2400 × 600 dpi) quality
Automatic Duplex	Yes (2-sided printing)
Scanner Type	Flatbed + ADF (Automatic Document Feeder)
Scanner Resolution	Max. 600 × 2400 dpi (glass), 600 × 600 dpi (ADF)
Copy Speed	Up to ~26–30 cpm (copies per minute)
Copy Resolution	Up to 600 × 600 dpi
Fax	Yes — ITU-T Super Group 3, 33,600 bps modem
Paper Handling – Input	250-sheet standard tray + 1 sheet manual feed
ADF Capacity	~35 pages (multi-page scanning)
Paper Sizes Supported	A4, Letter, A5, A6, B5, Executive, Legal, Folio, Envelopes (C5, DL, Monarch, Com-10)
Memory	32 MB
Display	16 characters × 2-line LCD
Connectivity	USB 2.0, Ethernet (LAN), Wi-Fi (802.11b/g/n)
Operating System Support	Window(driver support varies)
Power	AC 220-240 V
Warranty	1-Year

Monochrome Laser Printer — Specifications

Use Case	Small/medium office and home office monochrome printing

Specification	Details
Printer Type	Single-function monochrome laser printer
Print Functions	Print only
Output Color	Black & White (mono)
Print Technology	Laser
Print Speed	Up to 30 pages per minute (ppm) (A4/Letter)
Print Resolution	600 × 600 dpi (standard) / HQ1200 up to *2400 × 600 dpi*
Automatic Duplex	automatic two-sided printing
Memory	32 MB
Display	16-character × 1-line LCD
Connectivity	USB 2.0 Hi-Speed, Ethernet (10/100), Wi-Fi (802.11b/g/n)
Paper Handling – Input	Standard 250-sheet tray + 1-sheet manual feed
Supported Paper Sizes	A4, Letter, A5, A6, Executive, B5(JIS), Legal, Folio
Operating Systems Supported	Windows (driver support varies)
Warranty	~1-Year warranty

dot matrix Printer Specification: for cashier

Use Case	**forms printing, warehouse/finance/admin reports**

Specification	**Details**
Printing Method	**Impact dot matrix (24-pin)**
Number of Pins	**24 pins**
Print Columns	106 columns (at 10 cpi)
Print Speed (characters/sec)	High-Speed Draft: up to **529 cps (12 cpi)**; Draft ~396 cps; LQ ~132 cps
Copy Capability	1 original + up to 6 copies
Print Resolution	360 × 180 dpi
Memory Buffer	128 KB
Interfaces / Connectivity	USB 2.0, Bidirectional Parallel (IEEE-1284)
Supported Media Types	Single sheets, multi-part forms, continuous paper, labels, envelopes, cards, roll paper
Paper Feed Options	Front friction feed, Rear tractor feed, Front output
OS Compatibility	Windows (legacy drivers auto install in modern OS)
Warranty	1-Year

Label Printer Specification Table

Use Case	Shipping labels, inventory, retail tags — office/e-commerce environments

Specification	**Details**
Print Technology	Direct thermal
Print Resolution	203 dpi (standard for barcode/shipping labels)
Print Speed	Up to 152 mm/s (~6 ips)
Media Width Range	30 – 118 mm (1.18”–4.64”)
Supported Label Types	Standard rectangular, color circle thermal stickers (30–118 mm)
Connectivity	Wireless (Wi-Fi) — USB
Warranty	~1-Year warranty

UPS Specification Table — Office PC + Printer

Specification	Details / Recommendation
UPS Type	Line-Interactive or Online (Line-Interactive sufficient for small office PC + printer)
Capacity (VA / Watts)	**600–800 VA / 360–480 W**
Input Voltage	220–240 V AC, 50/60 Hz
Output Voltage	220–240 V AC, 50/60 Hz
Backup Runtime	~5–10 minutes at full load (enough to save work and safely shut down PC + printer)
Number of Outlets	≥ 4 (2–3 battery-backed, 1–2 surge-only optional)
Overload / Surge Protection	Yes, includes lightning and surge protection for all outlets
Communication / Monitoring	USB / RS-232 port for PC monitoring (optional software to safely shutdown)
Audible Alarm	Yes — indicates power loss, low battery, overload
Warranty	~**1-Year warranty**

A3 Printer — Specifications

Feature	Specification
Print Technology	HP Thermal Inkjet
Maximum Paper Size	A3 / 11×17” (Wide Format)
Print Resolution	Up to 1200×1200 dpi (Black) / 4800×1200 dpi (Color)
Print Speed	~22 ppm (Black) / ~18 ppm (Color)
Duplex Printing	Automatic