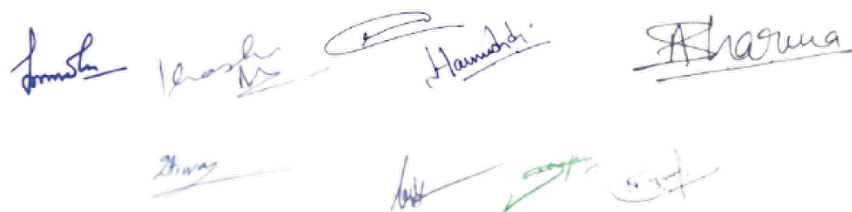


Specifications for 3D Printers (FDM & Resin)

S.No.	Item Description	Technical Specifications	Qty
1	FDM 3D Printer	Printer Specifications: Build volume: 256 × 256 × 256mm Print speed: 500mm/s maximum Acceleration: 20,000mm/s² Motion system: CoreXY Extruder: Direct drive, dual gear Hotend: All-metal, 300°C maximum Nozzle: 0.4mm stainless steel (0.2–0.8mm swappable) Bed: Heated (100°C), textured PEI plate Auto bed leveling: Strain gauge sensor Vibration compensation: Active (XY axis) Enclosure: Fully enclosed with activated carbon filter Camera: Built-in 720p for monitoring/timelapse Multi-material system: 4-spool AMS included Display: 2.8" monochrome LCD Connectivity: WiFi, Bluetooth Software: Bambu Studio, Bambu Handy app Materials: PLA, PETG, TPU, ABS, ASA, PVA, PA, PC, PLA-CF, PETG-CF (with hardened nozzle) Spare Hotends & Nozzles: Complete hotend assembly with hardened steel 0.4mm nozzle (×2) Complete hotend assembly with hardened steel 0.6mm nozzle (×1) Hardened steel extruder gear assembly (×2) Build Surfaces: Textured PEI plate (×2), Smooth PEI plate (×1), High-temp engineering plate (×1) Consumables & Maintenance: Activated carbon filters (×5), Nozzle wiper pads (×10), Silicone hotend socks (×5), PTFE tubes (×3), Lubricant grease packs (×5), Filament cutter blades (×3) Filament Stock: PLA (assorted colors): 8kg total, 1.75mm ±0.03mm, 190–220°C PETG: 4kg total, 1.75mm ±0.03mm, 230–250°C ABS: 2kg total, 1.75mm ±0.03mm, 220–250°C TPU 95A: 1kg total, 1.75mm ±0.03mm, Shore 95A PLA-CF: 1kg, 1.75mm, 210–230°C (carbon fiber reinforced) PETG-CF: 1kg, 1.75mm, 240–260°C (carbon fiber reinforced) PVA (support material): 1kg, 1.75mm, 190–210°C All filaments vacuum sealed with desiccant Tools & Safety: Flush cutters and needle-nose pliers, Precision scraper set, IPA wipes for bed cleaning, Heat-resistant gloves, Unclogging pin tools, Allen key set (H1.5, H2), Filament dry box with hygrometer	01



S.No.	Item Description	Technical Specifications	Qty
2	Resin 3D Printer	Printer Specifications: Build volume: 218.88 × 122.88 × 220mm Print speed: 150mm/h maximum Layer thickness: 0.01–0.2mm Print technology: MSLA (masked stereolithography) Light source: COB + Fresnel collimating lens, 405nm LCD screen: 10-inch 12K mono, 11520 × 5120 resolution XY resolution: 19 × 24μm Z-axis accuracy: 0.02mm Build plate: Laser-etched aluminum Auto leveling: Mechanical sensor, one-click AI camera: Failure detection, time-lapse, monitoring Display: 4" capacitive touchscreen Connectivity: WiFi, USB Release film: PFA System: Self-developed OS, 8GB ROM Materials: UV-sensitive resin (405nm) Post-Processing Station: Elegoo Mercury XS Bundle (wash & cure station) Wash capacity: 7000ml, max size 201 × 124 × 255mm Cure size: Φ200 × 260mm, 360° rotation 28 UV LEDs (405nm) + Fresnel lens Handheld UV curing lamp for detail work Timer: 0–30 minutes adjustable Spare Parts: Metal resin tank with PFA film pre-installed (×1), Build plate (×1), LCD screen protector, 9H tempered glass (×2) Consumables: PFA release film 5-pack (273 × 176mm, 0.127mm thick) (×3 packs), Paper funnels (×50), Mesh resin filters (×100) Resin Stock: 8K Standard resin (grey): 3kg, 405nm UV-curing ABS-Like resin V3.0 (grey): 2kg, high strength/toughness Water-washable resin (grey): 2kg, easy cleanup Plant-based resin (beige): 1kg, low odor All resins sealed, store away from UV light Cleaning & Safety Supplies: Isopropyl alcohol 99% (IPA): 4 liters, Nitrile gloves, powder-free (box of 100), N95 respirator masks (×20), UV-blocking safety glasses (×2), Silicone work mat, large, Stainless steel scrapers (×2), Plastic scrapers for PFA film (×3), Lint-free microfiber cloths (×10), Sealed waste container for used resin/IPA, Curing station for IPA resin waste Tools & Finishing: Precision flush cutters, Needle file set, Sandpaper assortment (400–2000 grit), UV resin for filling/repairs, Model holder/clamps for post-processing	01









