BILL OF MATERIALS (BOM)

PLA 988th Hospital - Digital Clean Operating Room Project

Project Area: ~40 m², Standard OR	Cleanliness Level: Class 100 / Class 10,000 (ISO 5 / ISO 7)	Document Version: 2.0 (Final Spec)

Procurement note: The medical pendants (monitoring/anesthesia and surgical pendants), operating table, and surgical shadowless light were procured by the client.

No.	Item Name	Specifications & Technical Parameters	Unit	Qty	Remarks / Location
I. CLEANROOM ENCLOSURE & STRUCTURAL FINISHES					
1	**Wall Panel System**	1.0 mm electro-galvanized steel panel with antibacterial coating, framework-free quick-install system with aluminum profile connectors.	sqm	**115**	Four perimeter walls, direct wall-mount, incl. R-curved corner profiles.
2	**Ceiling System**	Modular metal cleanroom ceiling panels with dust-proof seals and seamless joint fittings.	sqm	**42**	Cleanroom ceiling area excluding laminar airflow ceiling.
3	**Cleanroom Light Fixtures**	Recessed dust-free LED bevel lighting panel (600 × 1200 mm, IP65 rated, color temp 4500 K, anti-glare).	set	**8**	Flush ceiling mounted surrounding central laminar area.
4	**Laminar Airflow Ceiling**	Class III / II Clean Air Supply Canopy (2.4 m × 1.2 m / 2.6 m × 1.4 m) with integrated H14 HEPA filtration box.	set	**1**	Mounted directly above central surgical table.
5	**Return Air Grille**	Stainless steel (SUS304) side-wall return air grille with built-in air volume control damper and flame-retardant mesh.	set	**4**	Installed at bottom four corners / side wall locations.
6	**HEPA Filters**	H14 mini-pleat HEPA filter (Efficiency 99.995% @ 0.3 µm particle size).	pcs	**6**	Fitted within laminar airflow ceiling and duct terminals.
II. MEDICAL CEILING PENDANTS & CORE EQUIPMENT					
7	**Monitoring Pendant**	Dual-arm high-strength aluminum medical pendant (arm radius 800 + 800 mm), equipped with shelves, monitor tray, and gas/electric outlets.	set	**1**	Positioned at head/left side of surgical table. Client-procured.
8	**Surgical Pendant**	Single-arm aluminum surgical pendant (arm length 1000 mm), equipped with MIS instrument shelves and vacuum outlets.	set	**1**	Positioned at right/foot side of surgical table. Client-procured.

BILL OF MATERIALS (CONTINUED)

No.	Item Name	Specifications & Technical Parameters	Unit	Qty	Remarks / Location
9	**Surgical Shadowless Light**	Dual-head LED surgical light (Main head 700 / Satellite head 500), multi-lens optical system with HD camera integration ready.	set	**1**	Ceiling suspended from central structural frame. Client-procured.
10	**Operating Table**	Universal electro-hydraulic operating table with radiolucent tabletop, carbon fiber longitudinal sliding, and heavy-duty base.	unit	**1**	Central operating zone position. Client-procured.
III. WALL-INTEGRATED CABINETS & CONTROL SYSTEMS					
11	**Control & Information Panel**	Digital OR central control panel featuring real-time clock, surgical timer, temperature/humidity display, and medical gas alarms.	set	**1**	Flush-mounted into right wall control console panel.
12	**Instrument Cabinet**	Built-in double-door medical stainless steel instrument cabinet (900 × 1700 × 350 mm, SUS304, 1.2 mm thickness).	unit	**1**	Flush wall-mounted installation.
13	**Medicine Cabinet**	Built-in medical stainless steel medicine and reagent cabinet (900 × 1700 × 350 mm, SUS304, 1.2 mm thickness).	unit	**1**	Flush wall-mounted installation.
14	**Warming/Cooling Cabinet**	Built-in dual-compartment warming and cooling cabinet equipped with medical-grade precision temperature controllers.	unit	**1**	For saline solution/blood product temperature control.
IV. OUTLETS, TERMINALS & ELECTRICAL ACCESSORIES					
15	**Medical Gas Outlets**	Self-sealing quick-connect medical gas outlets (O2, Vac, Air, N2O, AGSS).	set	**4**	Distributed on ceiling pendants and wall functional tracks.
16	**Power Supply Terminals**	Splash-proof medical single-phase / 3-phase power socket panels with potential equalization grounding studs.	set	**12**	8 sets on pendants, 4 sets on wall panels.
V. OPERATING ROOM DOORS					
17	**Automatic Operating Room Door**	Automatic sliding medical door for cleanroom access; dimensions, observation window and control accessories to match the approved project configuration.	set	**1**	Operating-room access.
18	**Manual Operating Room Door**	Manual swing medical door for cleanroom access; dimensions, observation window and hardware to match the approved project configuration.	set	**1**	Operating-room access.