TECHNICAL SPECIFICATION & COMMERCIAL BID SCHEDULE (ALL-IN-ONE)

Equipment: Ceiling-Mounted Dual-Arm Dual-Dome Surgical LED OT Light with Separate Accessory Breakup

S.N.	Component / Accessory Block	Technical Specifications & Scope of Supply	Qty	Offered Make / Model	Basic Rate	GST (%)	Total Price
1	**Dual Dome Optical Head Units (Major & Satellite Heads)**	• Optical Performance: Central illuminance Ec ≥130,000–160,000 Lux @ 1 m on BOTH heads (or 160k major + 140k satellite). • Color Quality: CRI (Ra) ≥95, R9 ≥90; adjustable/selectable color temperature 3,800K–5,500K (or fixed 4,000K–5,000K). • Field & Depth: Spot field diameter (d10): 150–300 mm (adjustable); Depth of illumination (L1+L2 @ 20%): ≥1,000 mm. • Heat & Shadow: Shadow dilution ≥95%; temperature rise at surgical field ≤2°C (IR/heat filter protection).	1 Set (2 Domes)				
2	**LED Emitter Modules & Thermal Housing**	• LED Emitters: Premium international make (Osram / Cree / Lumileds); rated service life ≥50,000 hours. • Thermal Management: Aerodynamic die-cast aluminum housing for passive convective laminar flow cooling. • Spare Modules: Included backup LED cluster modules for immediate field replacement.	1 Set				
3	**Dual-Arm Suspension System & Ceiling Mounting**	• Suspension Design: Heavy-duty dual-arm articulated mechanism with continuous 360° rotation on all primary joints. • Balance & Radius: Medical-grade spring-counterbalanced arms (Ondal / equivalent) with drift-free friction braking; working radius ≥1,500 mm per arm. • Structural Mounting: Heavy-duty ceiling interface flange, drop tube, and high-tensile anchor hardware.	1 Set (Dual Arm)				

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4	**Dual Digital Control Panels & Electrical Unit**	• Controls: Independent membrane/touch digital control panel for each dome (10%–100% stepless dimming, on/off). • Specialized Modes: Dedicated one-touch Endo Mode (ambient green/low illumination for laparoscopic surgery). • Power Unit: 220–240V AC, 50/60 Hz SMPS power supply with built-in voltage spike and surge protection.	1 Set				
5.1	**Sterilizable Handles**	Detachable, medical-grade polymer/metallic handles autoclavable at 134°C (Quantity: 10 pieces).	10 Nos.				
5.2	**Ceiling Extension & Flange Kit**	Complete ceiling drop tube, mounting flange, anchor fasteners, and aesthetic ceiling canopy cover ring.	1 Set				
5.3	**Quality & Compliance Docs**	Mandatory CE, ISO 13485, IEC 60601-1, and IEC 60601-2-41 certificates, factory optical calibration report, and user manuals.	1 Set				
6	**Installation, Commissioning & 2+8 Year Extended Warranty**	• Turnkey Scope: Complete on-site mechanical anchoring, structural load testing, electrical wiring, optical alignment, and staff training. • Warranty Terms: 2-Year comprehensive on-site warranty on suspension arms, power supply, and electronics + 8-Year extended warranty on LED modules. • SLA: Local service center support with guaranteed breakdown response within ≤48 hours.	1 Job				
	TOTAL BASE SYSTEM PRICE	**Turnkey Dual-Arm Dual-Dome Light Package (Items 1 to 6 complete with 10 handles, ceiling kit, installation, and 2+8 Year Warranty).**	**Total**				
OPT 1	**In-Dome Full HD Video Camera**	**Integrated Full HD surgical dome-mounted video camera with 20x optical zoom, control box, and monitor cabling.**	**1 Set**				

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OPT 2	3rd Spring-Balanced Monitor Arm	Independent 3rd ceiling-suspended articulated spring arm for 24"–32" surgical display monitor.	1 Unit				
OPT 3	2-Hour Online Battery Backup	Medical-grade online static inverter/UPS unit providing ≥2 to 3 hours of full light intensity during mains failure.	1 Unit				
OPT 4	Post-Warranty AMC (Yrs 3–5)	Annual Maintenance Contract covering preventive servicing, arm spring friction balancing, and electrical checks.	3 Yrs				
OPT 5	Post-Warranty CMC (Yrs 3–5)	Comprehensive Maintenance Contract covering electronic controllers, SMPS power supplies, and suspension joints.	3 Yrs				