

LED Operation Theatre, Double dome, Ceiling, Cold Light for WCR, Central Hospital, Jabalpur.

Technical Specifications -

Parameters	<b>No Deviation in Major parameters accepted. (Zero Tolerance).</b> LED Operation Theatre, Double dome, Ceiling, Shadow less, Cold Light.	
Major Parameter	International Standard	O.T. light must be CE marked & as per International standards IEC 60601-1, IEC 60529, IEC 60601-2-41, IEC 1-1-2. All components should be from one company & of Excellent quality as per the specifications.
	LED Operation Theatre, Double dome, Ceiling, Shadow less, Cold Light.	
	<ol style="list-style-type: none"> <li>1. Color temperature &amp; color rendering index close to natural day light so the O.T. light must not change the Original color of tissues &amp; blood of operative field.</li> <li>2. High efficiency Endothermal system to control the temperature rising of Operating area. Endothermal material which is in accordance of international standard increases the light efficiency greatly &amp; decreases the energy in Operating field.</li> <li>3. Excellent shadow less homogenous effect &amp; excellent focusing depth so the surgeon differentiate down to finer details in the surgical field.</li> <li>4. Competable with laminar air flow purification system in operation theatre- The fully sealed streamline lid with aerodynamic designed which decreases the flow resistance and make clean laminar flow through the operating area directly and ensure the flow circulation to bring the O.T. sterilization &amp; purification in perfect order.</li> <li>5. All main joints of surgical light must be provided with capability of revolving free at 360° angles in six positions to meet the need of all operations in various heights, angles &amp; positions.</li> <li>6. Handling- Soft key touch panel to control all functions efficiently. Sterilisable Central Handle to control the adjustment of light field size by surgeon. Large external handles to facilitate positioning of the light by non-sterile personnel.</li> <li>7. The surgical light should be complete with all components for ceiling mount &amp; electrical connections for installation at OT of CH/WCR/Jabalpur.</li> </ol>	
<b>Technical Data.</b>	<b>Major Dome</b>	<b>Satellite Dome</b>
Diameter of Light body. Light weight aluminum made domes required.	620 mm-790 mm.	620 mm- 630 mm.
Maximum illumination	1,60,000 lux.	1,20,000 lux -1,40,000 lux

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<b>Major Parameter</b>	intensity at one meter distance		
	Illuminated diameter (view field)	200 mm to 300mm.	200 mm to 280mm
	Colour temperature	5000 K	5000 K
	Colour Rendering Index (Ra)	95 - 96	95 - 96
	Red Rendering Index (Red) R9	93 - 94	93 - 94
	Central irradiance.Ee	580 W/m <sup>2</sup>	430W/m <sup>2</sup>
	Ratio between radiated energy (Ee) & illuminance (Ec)	3.4mW/m <sup>2</sup> lux	3.5mW/m <sup>2</sup> lux
	The constant depth of illumination	1100mm-1300mm	1100mm-1300mm
	Adjusting the illumination intensity.	40,000 lux-1,60,000 lux	40,000 lux-1,40,000 lux
	Endolight	300 lux	300 lux
	Number of LEDs	66-81 units	30-48 units
	Average LED life	30,000 -50,000 Hours	30,000 - 50,000 Hours
	Power Consumption- Volt ac	60-108 w 100-240 volts 50/60 Hz	50-60 w 100-240 volts 50/60 Hz
	<b>Minor parameter</b>	Rites inspection is mandatory. Install at Operation theatre of WCR, Central Hospital, Jabalpur (M.P.)	
Any fault must be repaired within 24 hours by company.			
Warranty period		Twenty four months after installation.	
Annual maintenance contract / Comprehensive maintenance contract.	Five years after warranty period. Rates must be quoted. All standard terms & conditions of INDIAN RAILWAYS relating to tender are also applicable for this tender enquiry.		

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 Dr. K. K. Damade. 29/9/14  
 ACHD/Anesth/JBP.

**Annexure-II**

To be submitted by the firm along with offer-

<b>Tender specification</b>	<b>Specification quoted by the firm</b>	<b>Deviation if any with clarification</b>