

LED-Over head,ceiling,suspended Operation Theatre light for WCR, Central Hospital, Jabalpur.

Technical Specifications -

Major Parameter	<u>No Deviation in Major parameters accepted.(Zero Tolerance).</u> Over Head Ceiling, Suspended, LED Technology,cold, double dome,Operation Theatre Light.	
International Standard		O.T. light must be international CE marked & as per International standards IEC 60601-1-2: 2007, IEC 60601-2-41:2000. & ISO 14971:2007. All components should be from one company & of Excellent quality as per the specifications.
	<p>Over Head Ceiling, Suspended, LED Technology,coldwith multiparabolic Reflectors, Double Dome Operation Theatre Light. <u>Each dome must have following characteristics-</u></p> <ol style="list-style-type: none"> 1. Color temperature & color rendering index close to natural white day light so the O.T.light must not change the Original color of tissues & blood of operative field. 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 & decreases the energy in operating field. 3. Excellent Shadow less,cool,natural white light & excellent focusing depth. 4. Ambient light from single LED to support minimal invasive procedures. 5. Compatible 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 & purification. 6. Adjustable spring suspension Arm System- Each dome has the Capability of revolving free at 360 angles in six positions to meet the need of all operations in various heights, angles & positions. 7. 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. 	



	Technical Data.	Major Dome	Satellite Dome
Major Parameter	Diameter of Light body. Light weight aluminum made domes required.	620mm	400mm
	Maximum illumination intensity at one meter distance	1,60,000 lux.	1,30,000 lux.
	Illuminated diameter (view field)	200mm to 320mm	160mm to 280mm
	Colour temperature	4500K to 5000 K	4500K to 5000 K
	Colour Rendering index	95	95
	Low heat emission at maximum intensity.	580 W/m ²	430 W/m ²
	Illumination intensity/Irradiance	3.5mW/m ²	3.5mW/m ²
	The constant depth of illumination	1030mm to 1300mm	950mm to 1200mm
	Light source-power leds LED Technology	66 to 81 High Performance LED	30 to 48 High Performance LED
	Life Time Light Sources	40,000 to 50,000 Hours long life	40,000 to 50,000 Hours long life
Minor parameter	Control Element	Soft key touch panel. Sterlisable Central Handle, including light field size adjustment. (One each Sterlisable Central Handle as stand by required)	
	Power Supply	220 to 240V (AC) 50 Hz.	220 to 240V (AC) 50 Hz.
	Power Consumption.	120 to 170 VA	120 to 170 VA
	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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K. Damade

Dr. K. K. Damade. 03/2/14
ACHD/Anesth/JBP.

Annexure-II

To be submitted by the firm along with offer-

Tender specification as per Annexure-I	Specification quoted by the firm	Deviation if any with clarification

Signature of firm's