OT Light LED

Technical Specification

I. OT LIGHT – LED without camera

Should be a Surgical Light unit incorporating the latest LED technology shadowless operating light field with the following specifications.

1. Should have Single Colour high performance LEDs with life time more than 40,000 hours.
2. Should be a dual dome and the main light and satellite should have the following specifications
   a. LUX intensity 1,40,000 Lux & Satellite 1,40,000 Lux or above.
   b. Light Field diameter shall be above 24 cm or better.
   c. Colour temperature should be between 4000 to 4500 degree K
   d. Colour rendering index should not be less than 95
   e. Depth of illumination should not be less than 100 cm.
   f. Illumination adjustment 30% to 100%
   g. The light dome shall be compatible for laminar air flow.
3. Should have stable illumination throughout the life period of the light. If the intensity reduces during the warranty or CMC period the LEDs has to be replaced at free of cost if required.
4. The LED’s must be of a single color suitable for long term maintenance and ease of replacement.
5. Temperature rise at the surgeon head level should be less than 2 degree C.
6. Should have control panel for light focusing adjustment fixed on the dome or arms.
7. Should supply autoclavable handle 3 Nos. for each dome
8. Unit should function with 200-240Vac, 50/60 Hz input power supply.
9. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and
10. The intensity of light from each dome should be uniform during the surgery.

II. **OT LIGHT – LED with camera**

Should be a Surgical Light unit incorporating the latest LED technology shadowless operating light field with the following specifications.

1. Should have Single Colour high performance LEDs with life time more than 40,000 hours.
2. Should be a dual dome and the main light and satellite should have the following specifications
   a. LUX intensity 1,40,000 Lux & Satellite 1,40,000 Lux or above.
   b. Light Field diameter shall be above 24 cm or better
   c. Colour temperature should be between 4000 to 4500 degree K
   d. Colour rendering index should not be less than 95
   e. Depth of illumination should not be less than 100 cm.
   f. Illumination adjustment 30% to 100%
   g. One of the dome shall have high definition 1080 lines resolution camera with optical zoom and focus adjustment. The camera control functions shall be either with remote control / wall control panel / dome / arm. The output of the camera shall be taken out and connected to the monitor / TV provided by the user institution (Maximum distance: 100meters)
   h. The light dome shall be compatible for laminar air flow.
3. Should have stable illumination throughout the life period of the light. If the intensity reduces during the warranty or CMC period the LEDs has to be replaced at free of cost if required.
4. The LED’s must be of a single color suitable for long term maintenance and ease of replacement.
5. Temperature rise at the surgeon head level should be less than 2 degree C.
6. Should have control panel for light focusing adjustment fixed on the dome or arms.
7. Should supply autoclavable handles 3 Nos for each dome.
8. Unit should function with 200-240Vac, 50/60 Hz input power supply.
9. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.
10. The intensity of light should be uniform during the surgery.
11. The cost for Recording Device (DVD writer, 1 TB Memory of reputed make) shall be provided as option as per the Annexure attached herewith. The rate offered shall not be taken for evaluation.

III. The cost for third arm with monitor stand with cables for video and power supply shall be provided as option. The rate offered shall not be taken for evaluation.