

Technical Specifications of Surgical Light (With Satellite)

Technical Specifications:

1. Main Light with satellite.
2. The surgical light is based on LED technology. The LEDs are homogeneous in colour, design, and distribution, and to be Ultra-high colour rendering. They provide suitable lighting and do not constitute a shadow within the surgical field. The bidder mentions the number and method of distribution of LEDs in both main and satellite headers, Shadow handling should be specified by the bidder.
3. The light is easy to move with stability. The bidder determines possible motion areas and rotation angles around all suspension hubs.
4. Main light: max illumination (150,000) Lux at least, Satellite light: max illumination (110,000) Lux at least.
5. Supplied with dimmer option. (Light intensity control).
6. Preferable to Supplied with ambient light Mode for Endoscopy surgery.
7. The bidder should determine Average life of Light, at least (50,000) H.
8. Color temperature: from the range (3000 - 6000) K.
9. Color Rendering Index 96 % at least.
10. Light field diameter range at 1 meter distance should be specified by the bidder (minimum Light field diameter not above than 18 cm)
11. Depth of illumination (L1+L2) at 60% and 20 % should be specified by the bidder.
12. Diameter of light patch at (50% of E_c – 10% of E_c) should be specified by the bidder, so they are $d_{50}/d_{10} \geq 0,5$.
13. Control of light illumination and mechanism should be specified by the bidder. The light can be controlled directly for both the main Light with satellite. Light features to be controlled from panel on light head in addition to wall control panel. Each to be explained by the bidder.
14. Detachable and Sterilize able grip in the centre of light head.
15. In the event of a malfunction in only one of the LEDs must be available to switch the disabled LED only or a few sets of LEDs without the need to change all LEDs and determines the bidder number of LEDs needed to change in case of failure of one of the LEDs and prefer to be as low as possible.

16. The light shall be equipped with a special endo-light pattern of surgical procedures, which gives a low light. The bidder determines the intensity of the lighting in this mode and the method of operation.

17. The thermal energy produced by the light shall be as low as possible and shall be mentioned by the bidder at one mw/m².

18. The bidder should submit spare parts with each light:

- Surgical light grips Qty. /5/ according used sample.
- Additional led Qty. /3/ at least or ship (3) according to manufacturing company recommending for the light and for the satellite.

(Available system should be determined by the bidder in case of one led failure).

19. Power supply 220 V \pm 10%, 50 Hz.

General conditions: The bidder shall commit and answer all of the followings	الشروط العامة يلتزم العارض ويجب عن كل مما يلي
1. 1- The company and the equipment are registered in the Ministry of Health and the bidder should present a copy of the required legalized certificates. Except for equipment which does not require registration	1- أن تكون الشركة والجهاز مسجلين لدى وزارة الصحة ويقدم العارض صورة عن وثيقة التسجيل مصدقة أصولاً من الوزارة. يستثنى من ذلك الأجهزة التي لا تحتاج لتسجيل.
2. The bidder shall be the legal agent of the manufacturer and the offered device, or delegated by the agent, supported with an authorization letter that state also clearly the commitment of the agent in the post-sale services..	2- أن يكون العارض هو الوكيل للشركة والجهاز المقدم أو مفوض من قبل الوكيل بموجب رسالة تفويض توضح أيضاً التزام الوكيل بخدمة ما بعد البيع.
3. The bidder should provide copies of the quality certificates of the offered device. CE is required unless otherwise stated.	3- يقدم العارض صورة عن شهادات الجودة الحاصل عليها الجهاز. شهادة CE هي إحدى المتطلبات ما لم يرد خلاف ذلك في الشروط الخاصة بالجهاز.

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4. The bidder should offer original technical data Or data sheets certified by the manufacturer clarifying the technical information of the equipment and its accessories.The bidder should clearly mention the name of the model offered.	4-يرفق العارض ضمن عرضه الفني كتالوكات أصلية أو نشرات فنية موثقة ومعتمدة من الشركة الصانعة توضح كافة المعلومات الفنية للجهاز وملحقاته ، ويذكر بوضوح اسم الموديل المقدم.
5. 4-The equipment should be new not refurbished, (manufacturing year not more than three years back).	5-يجب أن يكون الجهاز جديداً غير مجدد (يعود تصنيعه لثلاث سنوات ماضية كحد أعلى).
6. The bidder should mention the country of origin and manufacturing for the equipment and its main components and the accessories.	6-يحدد العارض بلد المنشأ وبلد الصنع للجهاز ومكوناته الأساسية والملحقات .
7. The bidder should mention any additional specifications of the equipment .	7-يذكر العارض المواصفات الإضافية التي يتمتع بها الجهاز .
8. The bidder undertakes to transport , install and operate the equipment with its all accessories and provides any requirements into the site .	8-يلتزم العارض بنقل وتركيب وتشغيل الجهاز بكافة أجزائه ومتمماته
9. A-one year manufacture quality,installation, operation period warranty unless differently mentioned in the technical specifications of the equipment.	9- فترة ضمان جودة الصنع والتركيب والتشغيل عام ميلادي ما لم يرد خلاف ذلك في الشروط الفنية للأجهزة
10. The bidder should submit all the relevant ,original documents (operating , maintenance and calibration) when the offer is accepted.	10-يلتزم العارض بتقديم كافة الوثائق الفنية اللازمة للتشغيل والصيانة والمعايرة مع المخططات الأصلية غير منقوصة عند رسو العرض عليه.

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11. The bidder undertakes to supply all the spare parts whenever they are required for 5 years after the warranty period .	11- يلتزم العارض بتأمين كافة القطع التبديلية حين طلبها ولمدة خمس سنوات بعد فترة الضمان.
12. The bidder/ local agent should have or specify a maintenance workshop with the required tools and equipment containing engineers as well as technicians .	12- يجب أن يتوفر لدى العارض/ الوكيل ورشة صيانة أو أن يعتمد ورشة متخصصة بصيانة الأجهزة الموردة يعمل بها مهندسون وفنييون متخصصون ومزودة بالأدوات والتجهيزات اللازمة .
13. During the warranty period the bidder should carry out all the preventive maintenance according to the manufacturer's directions (instructions) , and repair it during 48 hours of the declared date of a fault .	13- يلتزم العارض خلال فترة الضمان بإجراء كافة أعمال الصيانة الوقائية حسب توصيات الشركة الصانعة وإجراء أعمال الإصلاح خلال مدة لا تتجاوز 48 ساعة من تاريخ الإبلاغ عن العطل .
14. The bidder is considered to be committed with all the general conditions and quantities .	14- يعتبر العارض حكماً ملتزماً بالشروط العامة وبالكميات .