



NATIONAL INSTITUTE OF UNANI MEDICINE

Kottigepalya, Magadi Main Road, Bangalore – 560 091.

(An autonomous body under Govt. of India, Ministry of AYUSH)

Tel : 080-23584260

Fax: 080 -23584180

F.No.04-03/2016-17/NIUM/Admn./Vol.III/1597

Date.06/11/2017.

To,

Subject: Invitation of quotation for supply of Instruments/ Items for Operation Theatre: – reg.

Sir,

With reference to the subject mentioned above, Quotations are invited from reputed registered dealers for the supply of Hospital items as detailed below.

Sl. No	Name of the Items	Specification /Make	Quantity Required.	Amount (₹)	Total GST Amount (₹)	Grant Total (₹)
01	Oxygen Cylinder	Bulk (25 Litres)	03 No's			
02	Surgical Diathermy	HF output (auto cut effect) 400 w in 500 ohms, forced coagulation output power – 120w in 350 ohms (pulse modulated), haemostasis levels-four, spray coagulation output power- 120 w in 500 ohms (pulse modulated), auto stop/soft coagulation output power – 120 W in 125 ohms, auto bipolar output power – 120 W in 125 ohms, with HF leakage current monitor, with split pad patient Silicon plate contact monitor, mains supply – 230V 50 Hz, SMPS- internal power supply technology, Power current – 4 A, Power consumption in standby mode 30 W, Dimensions – W 420x H 155x D 350 mm. Silicon Plate with Bipolar Cable – 05 and Unipolar Cable – 05.	01 No's			
03	Mobile LED Light	1) Trolley mounted LED Light 2) Should have integrated battery backup. 3) Should have castors with locking brakes 4) Operating height of 2175mm	01 No's			

5) Transport height of trolley 1850mm

(a) State-of-the-art LED bulbs should be used to ensure low energy consumption and a long service life.

(b) Outer handles at the light head should be provided to allow for non-sterile positioning.

(c) Light head must be designed with smooth transitions and surfaces, without slots, gaps or exposed screwing to ensure fast and effective cleaning.

(d) The light head with streamlined shape is favourable within laminar flow. The light head must be resistant to disinfectant.

(e) For sterile positioning an ergonomic, exchangeable and centrally positioned sterile handle within the light head should be provided.

(f) Color temperature should be homogeneous for all illumination intensity.

(g) Technical data for dome: -
 1nos.

- i. Central illumination intensity E_c 160.000 lux
- ii. Average Color rendering index R_a 95
- iii. Color rendering index R_9 (red) 93
- iv. Color temperature more than 5000K

Central irradiance E_e
 $580 \text{ W/m}^2 \pm 50 \text{ W/m}^2$
 E_e/E_c ratio - 3.5 W/m²
 x Lux

Adjusting the illumination intensity 40000 to 160000 Lux

Number of LED 66 units

Number of LED stripes 11 units

Service life LED bulbs approx. 30000 hours

Replacement of LED bulbs possible

Ambient light mode (Endolight) 300 Lux

Diameter of light head 620 mm

04	O.T. Light LED double dome (Ceiling)	<p>(a) The double dome operating light must be designed for the use in high demanding surgical procedures. State-of-the-art LED bulbs should be used to ensure a low energy consumption and a long service life.</p> <p>(b) Outer handles at the light head should be provided to allow for non-sterile positioning.</p> <p>(c) Light head must be designed with smooth transitions and surfaces, without slots, gaps or exposed screwing to ensure fast and effective cleaning.</p> <p>(d) The light head with streamlined shape is favourable within laminar flow. The light head must be resistant to disinfectant.</p> <p>(e) For sterile positioning an ergonomic, exchangeable and centrally positioned sterile handle within the light head should be provided.</p> <p>(f) All main joints of surgical light must be provided with unlimited rotation (360°). Light head and suspension must be sealed dustproof.</p> <p>(g) Color temperature should be homogeneous at all illumination intensity.</p> <p>(h) Control of illumination intensity must be possible via wall control panel</p> <p>(i) Classification</p> <p>a. Protection class acc. to IEC 60601-1 -</p> <ul style="list-style-type: none"> i. Mains connection component - Protection class 1 ii. Light head – SELV <p>b. Protection class acc. to IEC 60529</p> <ul style="list-style-type: none"> i. Arm system/mains connection component - IP 30 ii. Light head - IP 42 <p>c. Classification in accordance with EU Directive 93/42/EEC Annex IX - Class I</p> <p>d. UMDNS-Code (Universal Medical Device Nomenclature System) - 12-282</p> <p>e. IEC 60601-1 - Medical electrical equipment – Section 1-1</p>	01 No's			
----	--------------------------------------	--	---------	--	--	--

		<p>f. IEC 60601-2-41 - Medical electrical equipment – Section 2-41</p> <p>g. IEC 60601-1-2 - Medical electrical equipment – Section 1-2</p> <p>(j) The surgical light should be complete with all components for ceiling mount and electrical feed-in, incl. finalised installation.</p> <p>(k) Technical data for main dome: - 1nos.</p> <ul style="list-style-type: none"> i. Central illumination intensity E_c 160.000 lux ii. Light field diameter at a distance of 1 m 200 mm iii. Depth of illumination L_1+L_2 1300 mm iv. Average Color rendering index R_a 95 v. Color rendering index R_9 (red) 93 vi. Color temperature more than 5000K vii. Central illumination at 1m distance with: <ul style="list-style-type: none"> I. Tube 100% II. one mask: 40% III. tube and one mask: 40% IV. two masks: 48% V. tube and two masks: 48% <p>Central irradiance E_e $580 \text{ W/m}^2 \pm 50 \text{ W/m}^2$ E_e/E_c ratio - $3.5 \text{ W/m}^2 \times \text{Lux}$</p> <p>Adjusting the illumination intensity 40000 to 160000 Lux</p> <p>Number of LED 66 units</p> <p>Number of LED stripes 11 units</p> <p>Service life LED bulbs approx. 30000 hours</p> <p>Replacement of LED bulbs possible</p> <p>Ambient light mode (Endolight) 300 Lux</p> <p>Diameter of light head 620 mm</p> <p>(l) Technical data for satellite dome - 1nos.</p> <ul style="list-style-type: none"> i. Central illumination intensity E_c 120.000 lux ii. Light field diameter 200mm 				
--	--	---	--	--	--	--

		<p>iii. Depth of illumination L1+L2 1300 mm</p> <p>iv. Average Color rendering index Ra 95</p> <p>v. Color rendering index R9 (red) 93</p> <p>vi. Color temperature 5000K</p> <p>vii. Central illumination at 1m distance with:</p> <p>I. Tube 100%</p> <p>II. one mask: 41%</p> <p>III. tube and one mask: 41%</p> <p>IV. two masks: 49%</p> <p>V. tube and two masks: 49%</p> <p>Central irradiance Ee 430 W/m² ± 50 W/m²</p> <p>Ee/Ec ratio 3.5 W/m² x Lux</p> <p>Adjusting the illumination intensity 40000 to 120000 Lux</p> <p>Number of LED 48 units</p> <p>Number of LED stripes 8 units</p> <p>Replacement of LED bulbs possible</p> <p>Service life LED bulbs approx. 30000 hours</p> <p>Ambient light mode (Endolight) 300 Lux</p> <p>Diameter of light head 620 mm</p>				
05	Medical Air Purification system for OT	<ol style="list-style-type: none"> 1. Mobile/Portable – Electrically operated. 2. Besides regular air filter should provide: <ol style="list-style-type: none"> a. Activated carbon filters to absorb odour. b. HEPA filter without any ozone emission and without ion generation 3. Filtration of particles and microbes of size larger than 0.3 microns 4. Should provide UV radiation to help purify the air to the extent of 99.9% purity by eliminating bacteria, viruses, fungi and mould completely 5. The purity of air 	02 No's			

		<p>discharged must match hospital ISO/NABH specifications.</p> <p>6. The manufacturer/supplier shall give technical proof of performance of the equipment with documentary support.</p>				
--	--	---	--	--	--	--

The quotations may be submitted in a sealed cover quoting the competitive rate with specification by clearly mentioning taxes applicable if any., time required for supplying the items with the terms & conditions, Copy of GST Certificate may kindly be enclosed.

The envelope containing quotation should be super scribed as **“Quotation for supply of Instruments/ Items for Operation Theatre”**

The last date for the submission of quotation is: **21/11/2017.**

Your’s faithfully,

**Sd/-
(Suresha)
Accounts Officer.**

Distribution :

- 1.Dr.S.Shah Alam, HoD, Dept. of Jarahiyat, for information.
- 2.Website in-charge for information and to upload quotation in NIUM- website.
- 3.Concern file.
- 4.Guard file.