



**GOVERNMENT OF GOA  
Medical Store Depot (MSD),**

**Directorate of Health Services, Campal, Panaji, Goa 403 001**

**Email: [msddhsgoa@yahoo.in](mailto:msddhsgoa@yahoo.in)**

**Ph. Nos. 2225646/5540/5668**

**No.99/PT/DHS/MSD/2023-24/1096**

**Dated: 08 /11/2023**

**TENDER NOTICE**

**(E-Tendering Mode Only)**

1. E-tenders are invited by the Director, Directorate of Health Services Campal, Panaji Goa on behalf of the Governor of Goa up to **11/12/2023 till 5.00p.m.**, for supply of Surgical Double Dome OT Light as listed in the Annexure attached. The Approximate value of the tender is Rs.64.00 lakhs.
2. The tender forms with terms and conditions and list of the items, can be viewed and downloaded online on the website <https://eprocure.goa.gov.in>.
3. The tender "Quotation for Tender no. 99/PT/DHS/MSD/2023-24/1096 dated 08/11/2023 should be submitted online. **Last date and time for submission of quotation online is 11/12/2023 at 5.00p.m. Submission of bids beyond the stipulated date and time will not be entertained.**
4. The following payments to be made online through e-payment mode via NEFT/RTGS/Net banking (Axis Bank) with pre-printed challans available on e-tendering website and directly credit the amount to ITG account as generated by challan and the copy of NEFT/RTGS/Net Banking (Axis Bank) challan is to be scanned and uploaded along with the bid on the website prior to submitting the hard copies before 11/12/2023 by 5.00pm.

Note: For any query please contact NIC help desk available on "Contact Us" Section on the portal <https://eprocure.goa.gov.in>

<b>Cost of tender document in Rs.</b>	<b>* Earnest Money Deposit (EMD) in Rs.</b>	<b>Tender processing fee in Rs.</b>
Rs. 1,500.00	Rs. 2,00,000/- or 3 % of the cost of items that are quoted by the bidder whichever is lower	Rs. 6,000.00

**\* Earnest Money deposit to be submitted @ Rs.2,00,000/- or 3% of the cost of the items quoted whichever is lowest. Bidders submitting EMD @ 3% of the cost of the items quoted should upload Self -declared letter/ certificate mentioning the amount of EMD submitted. Same will be checked after opening of Financial bid and non-submission of correct amount of EMD will be disqualified.**

**Failing to pay the EMD will lead to disqualification of the bidder from the tender.**

5. The technical bids will be opened online on **13/12/2023 at 10.30 am** in the presence of the Purchase Committee members. .

6. Hard copies of technical bids and financial bids of all the uploaded documents in two separate envelopes should also be submitted to this office separately along with the copy of NEFT/RTGS/ Net banking (Axis bank) challans of cost of tender document, EMD and tender processing fees **on or before 11/12/2023 by 5.00 p.m.** Catalogues of all machinery/equipments should be submitted along with the technical bid.
7. The quotation should be submitted online as per the annexure attached, along with the required documents/certificates. Hard copies of the same to be submitted to this department before the stipulated date and time.
8. The offer should be firm. Conditional offer will not be considered.
9. The rate should be quoted F.O.R. Destination. Taxes to be mentioned separately. Additional taxes if any can be mentioned in the remarks column of Technical Bid.
10. The rates quoted should be valid for a minimum period of 36 months from the date of placement of first order.
11. The delivery of the goods should be made within a period of one month or earlier from the receipt of the firm order, failing which the order will be treated as cancelled without further notice and Earnest Money Deposit will be forfeited in favor of the Government.
12. The supplier may insure the goods at his own cost to safeguard the delivery of such goods dispatched by him to the consignee, as this Department will not be responsible for the damage or pilferage of goods during transit.
13. The Director of Health Services reserves the right to accept the supply made by the supplier after the expiry of the stipulated delivery period in genuine cases.
14. The Director of Health Services is free to find the market rate of the product that it intends to procure. Final order will be placed to the successful bidder only after a thorough study and comparison of market rate of the product vis a vis the rate quoted by the lowest bidder is done.
15. All applications for the Refund of Earnest Money and the Security Deposits furnished with the tender should be made only to The Director of Health Services with all the details of the e-payments made along with date and tender number for which it was submitted.
16. The quantities of the items listed in the Annexures are likely to increase or decrease. Orders will be placed depending on the need/requirements of the department, at that point of time. The Directors decision in this regard will be taken as final.
17. Tenderers who do not agree with the Terms and Conditions mentioned herein may not submit their bids.
18. If the Tenderer requires interpretation of any clause, the decision of the Director of Health Services should be taken as final.
19. The nationality of the Tenderer should be specifically mentioned in the Tender.
20. Hands on working demonstration/Samples may be required before opening of the financial bid. Unsatisfactory performance at demonstration will disqualify the Tenderer. In exceptional cases the technical committee will have the power to waive the demonstration.

21. The Tenderer should deliver and install the equipment in the concerned department of the Hospital/health centre, give the demonstration, and train the staff of the department free of cost. Delivery should be made as per the requirement anywhere in the state of Goa as mentioned in the order.
22. Price: The Tenderer shall note the scope of work viz. Supply, Installation & Commissioning of Machinery & Equipment, with delivery at site and shall furnish detailed price for machines and accessories as per Schedules attached. (I to VI) in the financial bid.
23. The tenderer should note that the scope of the work comprises of Supply, Installation and Commissioning of the mentioned Machinery & Equipment, Electrification. Safety equipments if required may be quoted separately. However decision of the committee to purchase the same will be final.
24. The Director of Health Services reserves the right to reject any or all tenders without assigning any reasons.
25. The Director of Health Services will not entertain any correspondence with regards to the tender once the lowest bidder is selected.

26. **Completion Period**

The entire work of supply, Installation and Commissioning of the machine ordered including Mechanical & Electrical Works shall be completed in all respects within one month or earlier from the date of placement of the Order, failing which the successful tenderer will be liable for penalty of one fourth percent of the total value of the Order for each day of delay, subject to the maximum of 10% of the total value of the Order. The Director reserves the right to make risk purchase from the next highest Tenderer in case the successful Tenderer fails to execute the order to the satisfaction of the Director within the time limit specified in the order, in which case the first successful tenderer shall be liable to liquidate damages, to compensate for the losses including price difference. The Director however reserves the right to waive the penalty/risk purchase in genuine and deserving cases.

27. The Tenderer should state whether the machine and its accessories offered is
  - a. Manufactured by them in India.
  - b. Machine parts imported and assembled by them in India.
  - c. In either case the tenderer should furnish the following details.
    - i. Full address of the factory where the machine is manufactured or assembled.
    - ii. The description of the machinery installed for the purpose.
    - iii. Name, Age & Qualifications and experience of the person employed for the purpose.
    - iv. The documentary evidence by the way of License, Registration Certificate or Any other document issued by a Competent Authority in state Government or Government of India authorizing the Tenderer or the principal to manufacture the machine or assemble the machine as the case may be.
    - v. Name & Address of the Hospital / Diagnostic Centre where the quoted machine has been supplied.
28. The Tenderer shall indicate whether they have got facility for undertaking major repairs of the machines and if so the following details may be furnished.
  - i. Full address of the place where repairs would be undertaken.
  - ii. Description of the machinery installed for the purpose.
  - iii. Name, Age, Qualifications and experience of the persons employed for the purpose along with their contact number.

29. The Tenderer shall ensure that the machine remains in working condition throughout 24 hours and accordingly quote their down time. They should indicate in details duly supported by facts and figures in what way and how they are going to keep the down time to the minimum. If the breakdown time exceeds 72 hrs then the tenderer will be liable for penalty @ Rs. 500/- per day, for each day of delay till the machine is put in working condition.

30. **GUARANTEE/ WARRANTY PERIOD.**

- I. The successful Tenderer shall guarantee the entire system which they will install such as Machine, proper accessories, Electrical gadgets etc; for trouble free performance for a period of two Years from the date of commissioning of entire work satisfactorily. Any defects noticed during the guarantee/ warranty period shall be rectified free of cost including free replacement of parts having manufacturing defects and or faulty workmanship.
- II. The Tenderer shall clearly indicate the number of visits both “Demand” – (Emergency) and “Routine” for servicing/ Check-up which they will undertake for replacement of spares etc. free of cost during guarantee/ warranty period.
- III. The Tenderer shall certify that they will undertake/ enter into a 5 years Annual Maintenance Service Contract for a periodical check up/ servicing and Repairs of the Machine supplied, installed and commissioned by them for its full life span.
- IV. The Annual Maintenance contract should include minimum 3 visits i.e. one visit in every 4 months, in addition all break down calls to be attended on top priority.
- V. The tenderer should indicate the value of 5 (Five) years maintenance contract (after sales Service), individually for each year as a figure (INR) for unit machine and not as a percentage for a period commencing from the date of the expiry of the guarantee/ warranty period of TWO years. The same is mandatory and will be considered for gradation.

31. **UPDATING OF THE MACHINE:**

The Tenderer shall specify life span of the machine which they quote and undertake to incorporate future development to update the machine as and when required. The difference in price of the replaced parts will be paid by the Directorate at manufacturer’s price.

32. **UNDERTAKING FROM MANUFACTURERS /PRINCIPALS:**

The Tenderer shall furnish along with the tender, an undertaking from their Principal/manufacturer of the machine, that in the event their association/relations with their Principals/manufacturers of the machine either by the way of sole agency/exclusive distributorship or their representative is terminated or discontinued for one reason or the other by the manufacturers/principals or the tenderer themselves during the life span of the machine, then they would take over/assume or make arrangement to take over/assume to the full satisfaction of the Director of Health Services, the commitments and other obligations which the tenderers have made to the Director of Health Services.

33. **TAX, EXCISE DUTY, AND OTHER LEVIES:** Taxes as applicable and as amended by Government from time to time should be specifically mentioned, failing which no claim for taxes etc. will be entertained at a future date.

34. **INSURANCE:** This being Government institution equipment will not be insured by us. They have to be insured by the successful tenderer at their own cost to ensure reaching of the equipment dispatched by them at the destination.

35. **TERMS OF PAYMENT:** In Indian rupees vide ECS.

36. In the event of any dispute or difference between the parties hereto in relation to with this tender, the court in Goa shall have exclusive jurisdiction to adjudicate such dispute or difference.

37. Kindly note that the quantities tendered are for period of 3 years.
38. Incase tenderer want to submit any additional information, same may be furnished along with supportive documents in technical bid.
39. **A prebid meeting is scheduled on 21/11/2023 at 10.30a.m. in the Seminar Hall of Directorate of Health Services, Campal, Panaji-Goa. No suggestions/querries will be entertained after this prebid meeting.**

(Dr. GeetaKakodkar)  
Director of Health Services

## **TECHNICAL BID**

The quotations should be clearly marked with Tender No.99/PT/DHS/MSD/2023-24/1096 dated: 08/11/2023 (Technical Bid) uploading the following documents:-

1. An Earnest Money Deposit to be submitted @ Rs.2,00,000/- or 3% of the cost of the items quoted whichever is lowest is to be paid online through e-payment mode via NEFT/RTGS/Net banking (Axis Bank) with pre-printed challans available on e-tendering website and directly credit the amount of ITG account as generated by challan. Any deposit sent earlier for another tender will not be considered, even if the supplies in respect of the said deposit are completed. Earnest money deposit sent in any other form will not be accepted. The firms which are registered with DGS & D should also send Earnest Money Deposit. If any exemption on this behalf is required, they should produce an attested certificate from DGS & D that they are registered for supply of the category of the items covered under the above tender opening and still continue to be registered with them till date. Bidders submitting EMD @ 3% of the cost of the items quoted should upload Self -declared letter/ certificate mentioning the amount of EMD submitted. Same will be checked after opening of Financial bid and non-submission of correct amount of EMD will be disqualified
2. The successful Tenderer will have to submit Security Deposit of 5% of the items being ordered in the form of bank guarantee with a validity of two years from the date of installation/supply for due performance of the supply order. This security deposit will be returned only after the completion of warranty period and after the receipt of security deposit of 2% for AMC period. Earnest money deposit will be returned fully after the receipt of security deposit in case of successful tenderers. If the successful tenderer does not pay the security deposit, the invoices for the same will not be settled for payment and the order will be treated as cancelled. Also the EMD will be forfeited in favor of Government.
3. The successful Tenderer will have to submit an additional security deposit/Bank Guarantee valid for 5 years to the tune of 2 % of the cost of the equipment after completion of warranty period which will cover the entire maintenance period. If regular servicing is not carried out during the maintenance period the security deposit will be forfeited in the favour of the Government. The earlier bank guarantee of 5% will be returned after the submission of fresh bank Guarantee of 2% of the cost of the equipment, valid for 5 years.
4. As per notification no. 3/40/2003-IND(Part) dated 8<sup>th</sup> September 2011 issued by Industries Department, Government of Goa, Secretariat, Porvorim Goa, only those Micro and small Enterprises having turnover not exceeding Rs. 10.00 crores per annum for the preceeding 3 financial years and acknowledged with Entrepreneurs Memorandum Part II by Director of Industries, Trade and Commerce shall be eligible for the benefit under this scheme. A copy of the certificate may be furnished. All other SSI units will be treated on par with other firms. Micro and Small scale enterprise registered with NSIC in order to claim benefits of scheme will have to be registered with Directorate of Industries Trade and Commerce Goa.
5. The Stockist/Distributor who supplies the machinery on behalf of the Manufacturer should furnish/upload Authority letter for this particular Tender, to quote the items on their behalf wherever required.
6. After Sales Service: - The details of network of service centers in the state of Goa with complete address, phone no, fax no, e-mail ID, to be attached/uploaded.

7. The Director of Health Services reserves the right to reject any or all tenders without assigning any reasons.
8. ISO Certificate of the manufacturer/ Company are mandatory and should be uploaded/attached.
9. CE certificate of the manufacturer/ Company is to be furnished and should be uploaded/attached for all the equipments.
10. ISI certified equipments/instruments will be accepted only if CE certificate is not available, at the discretion of the Purchase Committee. However the decision of the Director will be final.

11. Information in the following format should be submitted for items quoted:-

Sr. no	Name of the item	Manufacturer and Model quoted	Equivalent specifications quoted by the Tenderer, with the name and address of the manufacturer with model	Whether the item quoted by the Supplier is as per the specifications asked for. Indicate against each item clearly – Yes/No	If the tender quoted is not as per specification then variation/deviation should be clearly indicated against each item asked for.	Authorization Letter Yes/No	ISI Yes /No	CE Yes /No	ISO Yes /No	NSIC /SSI	Remark
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12. Name & Addresses of the Government or Private Institutions to whom such equipment's have been supplied especially in Goa, Karnataka & Maharashtra State may be indicated.

(Dr. GeetaKakodkar)  
Director of Health Services

## **FINANCIAL BID**

**The quotation should be clearly marked as Envelope no 2 along with Tender No. 99/PT/DHS/MSD/2023-24/1096 dated 08/11/2023 and should be quoted for as per the Schedules I to VI attached.**

1. Should contain any/all documents including any price.
2. The Price should be quoted in Indian Rupees on turnkey basis which should also indicate all taxes FOR destination separately.
3. While filling the respective annexure, if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder in the assigned column rate of such item shall be treated as "0" (ZERO) & will be treated as incomplete tender & will be rejected outright. Kindly enter the name of the bidder in the respective cell.
4. Safety equipments if required for machinery & equipment, to be quoted separately. However Director reserves the right to reject the purchase of the safety equipment. Director's decision in the matter will be deemed final.
5. Taxes as applicable and as amended by Government from time to time should be specifically mentioned, failing which no claim for taxes etc. will be entertained at a future date.
6. The rate quoted should be valid for minimum period of 36 months from the date of placement of first order.
7. Rates of AMC after the stated warranty period along with the number of visits, to be quoted showing **yearly prices of unit machine separately up to 5 years (Year wise)**. Rates to be quoted in Indian Rupees as a figure and not as a percentage. The 5 years AMC rates will be considered while computing cost of the equipment.
8. Prices of spare parts / consumables required for the machine should be quoted separately.
9. The Financial bid of all the tenderers, whether technically selected or rejected can be viewed online. However, the technically rejected items/bids will not be taken into consideration for gradation.
10. The Director of Health Services reserves the right to reject any or all tenders without assigning any reasons.

(Dr. Geeta Kakodkar)  
Director of Health Services



## ANNEXURE – I

### ADDITIONAL QUESTIONS FOR IMPORTED EQUIPMENT MACHINERY

1. Please indicate here prices on the following basis:
  - i. F.O.R.
  - ii. F.A.S. Port of Shipment of your Principals/ Manufacturers.
  - iii. C.I.F. Indian Port.
  - iv. F.O.R. Station of dispatch. (also indicate the Station of dispatch)
2. For F.O.B./ F.A.S. quotation please indicate here separately :
  - i. Net ex-factory price.
  - ii. Net F.O.B. /F.A.S Prices exclusive of profit/ commission.
3. In case you are a foreign firm quoting direct please indicate:-
  - i. The name and address of your Indian Agents/Associates/Representative for servicing in India.
  - ii. Net F.O.R./F.A.S. price inclusive of the amount or remuneration or commission for the Indian Agents/ Associates.
  - iii. Commission/remuneration payable to the Indian agents/ associates in Rupees.
4. Please indicate the following particulars:-
  - i. The precise relationship between the foreign manufacturers/Principals and their Indian Agents/Associates.
  - ii. The mutual interest which the Manufacturer/principals and the Indian Agents/Associates have in the business of each other.
  - iii. Any payment which the Agents/Associates receive in India or abroad from the manufacturer/principals whether commission for the contract or as a general retainer fee.
  - iv. Indian Agents Income Tax Permanent Account Number.
  - v. The foreign suppliers Income Tax Permanent Account Number.

(SIGNATURE OF TENDERER)

## **ANNEXURE – II**

(TENDERER SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW: TENDERERS MAY PLEASE NOTE THAT IF THE ANSWERS FURNISHED ARE NOT CLEAR AND/OR EVASIVE, THE TENDER QUOTED WILL BE LIABLE TO BE IGNORED)

- 1) Tender No.----- Due Opening on -----
- 2) Offer is open for acceptance for 3 years from the placement of the first order.
- 3) whether the stores offered fully confirm to the technical particulars and specification/ drawings, specified by the purchaser in the schedule to tender, if not mention here details of deviations.
- 4) Brand of Stores offered.
- 5) Name and address of the manufacturer:
- 6) Station of manufacturer:
- 7) Please confirm that you have offered packing :
- 8) What is your permanent Income Tax Account Number & TIN No.
- 9) a) Are you registered with DGS & D for the item quoted, if so, indicate whether there is any monetary limit of registration.  
  
b) In case you are registered with NSIC under Single point Registration Scheme for the item quoted, confirm whether you have attached a photocopy of the registration certificate indicating the items for which you are registered.
1. If you are not registered either with NSIC or with DGS & D, Please state whether you are registered with Directorate of Industries of State Government Concerned.
2. Please furnish your performance statement.
3. Business name and constitution of the firm . Is the firm registered under:
  - i. The Indian Companies Act, 1956.

- ii. The Indian Partnership Act 1932  
(please give full names and address).
  - iii. Any Act, if not, who are the owners  
(Please give full names and address).
4. Whether the tendering firm is /are:
- i. Manufacturer
  - ii. Manufacturer's authorized agents.
  - iii. Manufacturer's stock of the stores  
tendered for.
- N.B: If manufacturers, agents, please upload with  
Tender the copy of the Manufacturers authorization.
5. For partnership firms state whether they are  
registered or not registered under Indian  
Partnership Act, 1932. Should the answer  
to this question by a partnership firm be in  
the affirmative, please state further:-
- a) Whether by the partnership agreement,  
authority to refer disputes concerning the  
business of the partnership to arbitration  
has been conferred on the partner who has  
signed the tender.
  - b) If the answer to (a) is in the negative,  
whether there is any general power of  
attorney executed by all the partners  
of the firm authorizing the partner who  
has signed the tender to refer dispute  
concerning business of the partnership to arbitration.
  - c) If the answer to either (a) or (b) is in the  
affirmative copy of the partnership agreement  
and the general power of attorney may be furnished along with  
the tender, where authority to refer disputes  
to arbitration has not been given to the partner  
signing the tender, the tenders must be signed  
by every partner of the firm.

(Signature of the Tenderer)

## **SCHEDULE II**

*PRICE BID FORMAT FOR ACCESSORIES BOTH ESSENTIAL AND OPTIONAL (ITEMWISE)*

<b>SR. NO.</b>	<b>ITS SPECIFICATION  (ESSENTIAL &amp; OPTIONAL)</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

SIGNATURE OF THE TENDERER

**SCHEDULE III**

**PRICE BID FORMAT FOR ESSENTIAL SPARES AND CONSUMABLES  
FOR 2 YEARS (ITEM WISE)**

SR. NO.	NAME OF THE SPARES AND CONSUMABLES ALONG WITH SPECIFICATION	QUANTITY	UNIT PRICE	TOTAL
1	2	3	4	5

SIGNATURE OF THE TENDERER

**SCHEDULE IV**

**PRICE BID FORMAT FOR RECOMMENDED SPARES AND  
CONSUMABLES FOR TWO YEARS (ITEM WISE)**

SR. NO.	NAME OF THE RECOMMENDED SPARE AND CONSUMABLES WITH ITS SPECIFICATION	QUANTITY	UNIT PRICE	TOTAL
1	2	3	4	5

SIGNATURE OF THE TENDERER

**SCHEDULE V**

**INSTALLATION AND COMMISSIONING CHARGES IF ANY (ITEM WISE)**

SR. NO.	NAME OF THE EQUIPMENT/MACHINE INSTALLATION AND COMMISSIONING CHARGES IF ANY	QUANTITY	UNIT PRICE	TOTAL
1	2	3	4	5

SIGNATURE OF THE TENDERER

**SCHEDULE VI**  
**ELECTRICAL, MECHANICAL WORKS ETC.**

<b>SR.NO.</b>	<b>DESCRIPTION OF WORK</b>	<b>AMOUNT</b>
<b>1</b>	<b>2</b>	<b>3</b>

N.B. For civil works the tenderer should quote lump sum. Works other than Civil the Tenderer shall quote item wise.

SIGNATURE OF THE TENDERER



## **ANNEXURE**

Sr. No.	Name of the Item	Qty. Required
1.	<p><b><u>Surgical Double Dome OT Lights</u></b></p> <ul style="list-style-type: none"> <li>• The 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 long service life.</li> <li>• Light source LEDs should be 48 or more.</li> <li>• Central handle should be provided such that sterile personnel can position the light easily. Round design should include integrated handles for non-sterile positioning.</li> <li>• Light head must be designed with smooth transitions and surfaces, without slots, gaps or exposed screwing to ensure fast and effective cleaning.</li> <li>• The light head with streamlined shape is favorable within laminar flow. The light head must be resistant to disinfectant.</li> <li>• Light heads should be controlled by PLC System.</li> <li>• Wall mounted control panel should be available as an upgradable option.</li> <li>• All main joints of surgical light must be provided with unlimited rotation (360°). Light head and suspension must be sealed dustproof.</li> <li>• All domes should have illumination intensity from 40 K Lux to 120 K/ 160 K Lux and special mode for ambient light of 300 Lux.</li> <li>• Bulbs should life of equal to or more than 30,000 hours.</li> <li>• Classification: <ul style="list-style-type: none"> <li>▪ Protection class acc. To IEC 60601-1-</li> <li>▪ Multipurpose switching power supply – Protection class 1</li> <li>▪ Light body – SELV</li> <li>▪ Arm system – IP41</li> <li>▪ Light body – IP42</li> <li>▪ Ventilation and air conditioning Part 4 – DIN 1946-4:2008-12</li> <li>▪ Electrical installation – IEC60364-7-710/VDE0100-710</li> <li>▪ Product design – IEC60601-2-41/ IEC60601-1</li> <li>▪ Electromagnetic compatibility (EMC) – IEC 60601-1-2</li> <li>▪ Classification as per EC Directive 93/42/EECanhang IX – Class I</li> </ul> </li> <li>• The surgical light should be complete with all components for ceiling mount and electrical feed-in, incl. finalized installation.</li> <li>• Technical data for Main dome and Satellite domes: <ul style="list-style-type: none"> <li>▪ Central illumination intensity Ec: 160.000 lux and 120.000 lux</li> <li>▪ Light field diameter adjustable: 180 mm to 290 mm</li> <li>▪ Depth of illumination L1+L2 (60%): 1000 – 1300 mm</li> <li>▪ Average Color rendering Index Ra: 95</li> </ul> </li> </ul>	4 units

	<ul style="list-style-type: none"> <li>▪ Color rendering index R9 (red): 93</li> <li>▪ Color temperature : 4400/ 5000/ 5600</li> <li>▪ Total nominal power of all LED bulbs: less than 100 W</li> <li>▪ Maximum power consumption per light: 115 VA</li> <li>▪ Supply voltage: 100-240V 50/60 Hz</li> <li>▪ Light head supply voltage: 24V/ DC</li> <li>▪ Rotation Radius: 360°</li> <li>▪ Lifetime of light sources: 30000 hrs. or more</li> </ul> <ul style="list-style-type: none"> <li>• Light intensity in 1 m distance: Small – 40,000 – 1,20,000 lx Big – 40,000 – 1,60,000 lx</li> <li>• Ee/ Ec ratio: Small – 3.5 (mW/ m<sup>2</sup>)/ lx Big – 3.5 (mW/ m<sup>2</sup>)/ lx</li> <li>• Ambient light intensity: Small – 300 lx Big – 300 lx</li> <li>• Light field diameter: Small – 200 mm Big – 200 mm</li> <li>• Depth of illumination L1 + L2 (20%): Small – 1,300 mm Big – 1,300 mm</li> <li>• Depth of illumination L1 + L2 (60%): Small – 750 mm Big – 750 mm</li> <li>• Colour temperature<sup>1</sup>: Small – 4,400; 5,000; 5,600 Kelvin Big – 4,400; 5,000; 5,600 Kelvin</li> <li>• Color rendering index Ra: Small – 95 Big – 95</li> <li>• Color rendering index R9: Small – 93 Big – 93</li> <li>• Number of LEDs: Small – 48 LEDs in 8 modules Big – 66 LEDs in 11 modules</li> <li>• Service life of LEDs<sup>2</sup>: Small – approx.. 50,000 hours Big – approx.. 50,000 hours</li> <li>• Ergonomically shaped sterilisable handle: Small – available Big – available</li> <li>• Ergonomically shaped sterile handle: Small – available Big – available</li> <li>• Light head diameter: Small – 620 mm Big – 620 mm</li> <li>• Lights are produced with the desired colour temperature.</li> <li>• All LEDs loose 20% of their intensity during this time</li> <li>• Options <ul style="list-style-type: none"> <li>▪ Display holder for 19-32” Displays – available</li> </ul> </li> <li>• Mechanical data mobile Polaris 100/200 <ul style="list-style-type: none"> <li>▪ Trolley width: approx. 760 mm.</li> <li>▪ Height adjustment telescopic tube: 400 mm</li> <li>▪ Trolley height in transport position: 1,850 mm</li> <li>▪ Working height: 2,175 mm</li> <li>▪ Weight<sup>3</sup>: 130 kg.</li> <li>▪ Mobile trolley, spring arm and light head</li> </ul> </li> </ul>	
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	<ul style="list-style-type: none"> <li>• Electrical data           <ul style="list-style-type: none"> <li>▪ Battery charging time: ca. 24 Stunden</li> <li>▪ Bridging time in case of power supply failure (for fully charged battery): approx. 180 minutes</li> </ul> </li> </ul>	
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(Dr. GeetaKakodkar)  
Director of Health Services