

**EMS MEMORIAL CO-OPERATIVE HOSPITAL & RESEARCH CENTRE
PERINTALMANNA**

Technical specifications of Medical Equipment & Rigid Pendant

QUOTATION NOTICE FOR PURCHASE OF MEDICAL EQUIPMENT

&

RIGID PENDENTS

EMCH / QTN / GEN / 08 / 2025

18th August 2025

Sealed quotations are invited from reputed manufacturers / authorised suppliers / dealers for the supply and installation of **IABP Machine, Handheld Non Mydriatic Fundus Camera, Automated Perimeter, Endoscopy Unit for ENT, Wall Mounted Spot Light & Holter Monitor**

Technical specifications of the equipment can be obtained from www.emshospital.org.in/about/tender

Quotations should be in Two sealed covers

- First cover super scribed “ Technical cover” should include technical specifications, list of installations authorization for the supply, safety certificates etc (as detailed in page 11 of this quotation notice)
- Second cover super scribed “Commercial cover” should include commercial terms such as Price, Warranty terms, tax if any, AMC / CMC details for next 5 years, cost of consumable / spare parts / consumables regularly required etc.
- Technical quotations will be scrutinized by a technical committee.
- Technically qualified quotations will only be considered for opening of Commercial quotations.
- The quotationers should submit their authorization for supply of the quoted items from the Manufacturer

Sealed quotations addressed to The General Manager, EMS Memorial Cooperative Hospital, Perintalmanna should reach the Administrative Office of the hospital on or before **4 PM on 1st September 2025**

General Manager

**EMS MEMORIAL CO-OPERATIVE HOSPITAL & RESEARCH CENTRE
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IABP Machine

Make : pls specify
Model : pls specify
Year of launch : pls specify
Manufacturing Country : pls specify

1. System should be transportable and compact with adequate battery backup.
2. System should have faster pneumatics to provide accurate ventricular support enhancing argumentation & improved after load reduction.
3. System should be capable of automatically selecting appropriate trigger. Ie, ECG or pressure and also accurately select the inflation and deflation points in auto mode.
4. Single ECG Trigger should be able to track various ventricular and atrial arrhythmias.
5. The system should automatically detect arrhythmia and adapt the R wave deflation mode accordingly
6. Should be able to trigger at lower pulse pressure in patients with hypotension in pressure trigger mode.
7. System should start up easy and user friendly.
8. Real time display of ECG, invasive blood pressure and balloon pressure wave forms.
9. Display should be bright and with good visibility from distance.
10. On screen indicator for helium level the cylinder and battery level.
11. ECG inflation marker to indicate inflation period on ECG which can be useful when pressure waveform is not available.
12. On screen indication of standby time
13. Prompt detection of blood flowing back to the balloon lumen in case of IABP leak .The machine should detect helium leak when the balloon is punctured
14. Should have facility for condensation removal automatically without user intervention should be maintenance free.
15. Should provide peripheral vascular Doppler for checking limb ischemia.
16. System should have at least 2 types of assist ratio like 1:1, 1:2 ,1:4 for comfortable veining.
17. Should have capability to connect on the hospital network and should be provided with the necessary software with multiple concurrent user licenses
18. Should have valid certification from the international standards organizations.
19. System should be supplied with the following:
 - a. ECG cable with lead wires: 2 sets
 - b. Reusable invasive blood pressure transducer: 2 Nos.
 - c. Refillable helium Cylinder compatible with the IABP system: 2 Nos
 - d. Intra Aortic Balloon Catheter (Adult Size): 4 Nos.

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a) Interface cables for connecting with patient monitor: 2 sets

Handheld Non Mydriatic Fundus Camera

Make : pls specify

Model : pls specify

Year of launch : pls specify

Manufacturing Country : pls specify

1. Imaging Modalities: Mydriatic and Non Mydriatic Imaging
2. Observation Modality: Can be used as a Direct Ophthalmoscope with at least 35 deg Field in a single view, without the camera in mydriatic mode
3. Photography Modes: Color, Red Free and Infrared Imaging
4. Focusing Mechanism: Auto-Focus & Manual Focus , ability to disable auto focus on App/ Software
5. Field of View: At least 40 degrees
6. Optical Magnification: 12X
7. Diopter magnification Range: -20D to +20D or better
8. Working Distance: 20 mm or better
9. Light Sources:
 - a. Mydriatic mode: Cool white LED
 - b. Non- mydriatic mode: Infra-Red and Cool White LED
10. Levels of Illumination: ISO15004 safety assured illumination levels controllable through software
11. Regulatory Certifications : CE, IEC6060-1, IEC6060-2, IEC 62304, IEC62133 ISO15004-1-2, ISO10940, USFDA 510K
12. AC power adaptor: 9V, 2A external CE marked medical-grade adaptor
13. Camera & Display Interface: Camera with integrated touch display
14. Camera Resolution: At least 6 MP pixel resolution
15. Weight & Dimension (WXDXH):1.5 Kg & 68 X 248 X 234 mm reasonable deviations can be accepted
16. Battery & Back up: 7.4 V, at least 1400 mAh Li-ion rechargeable battery :Minimum 2 Hour Battery back up:- please specify
17. Environmental:
18. Operating Temperature 0 degree Celsius to 40 degrees Celsius
19. Relative humidity 10% to 95%

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- 20. Acquisition Software: Operating System based, with built in Patient Management Software covering Patient Name, ID, Age, DOB, Hospital Name, Doctor name, Address fields, focus, zoom, LED intensity controls, manual focusing on LIVE View, color and IR photo acquisition mode
- 21. Image Processing Software: RGB controls, Monochrome, Picture Effects, Annotation based on touch and/or stylus, brightness, contrast sliders, choose images and print to PDF on a app, Wi-Fi Direct printing support
- 22. Connectivity Options: Bluetooth, Wi-Fi,
- 23. Illumination technology: Annular Illumination technology with black absorber to eliminate
- 24. corneal reflexes
- 25. Hands-on user training should be provided apart of installation

**EMS MEMORIAL CO-OPERATIVE HOSPITAL & RESEARCH CENTRE
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Automated Perimeter

Make : Please Specify

Model : Please Specify

Manufacturing country: Please Specify

Year of Launch : Please Specify

1. Maximum stimulus intensity : 10000 ASB
2. Stimulus wavelength: broadband visible light
3. Stimulus duration: 200msec
4. Bowl testing distance: 30 cm
5. Bowl illumination: 31.5 ASB
6. Max Temporal range: 80 +/-10 degree (full field)
7. Stimulus / Back ground: white on white preferred pls specify :
8. General testing features: Goldman stimulus size 1 to 5. Foveal threshold Testing, Automatic pupil measurement
9. Data analysis software: Statistical and multiple field analysis
10. Data storage: Hard disc drive minimum 2 TB , back up through pen drive or any other external hard disc
11. Fixation monitoring: Heji krakau blind spot monitor video eye monitor
12. Printer: Laser printer
13. Should be able do the static and kinetic perimetry
14. Multiple colour stimulus
15. Automatic eye tracking
16. Trolley from same manufacture should be supplied

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**EMS MEMORIAL CO-OPERATIVE HOSPITAL & RESEARCH CENTRE
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ENDOSCOPY UNIT for ENT Department

Make : pls specify
Model : pls specify
Year of launch : pls specify
Manufacturing Country : pls specify

II. HD 3 chip High definition Camera Head

1. 3 chip HD Camera Head resolution 1920 x 1080 pixel , CMOS Progressive Scan minimum 50HZ at least with 3 freely programmable Camera Head buttons and optical zoom lens of 2x dynamic optical zoom range .
2. The system should have special features :
 - Should optimize image quality & Digital Source Sampling thus maximizing hi- fidelity image transmission.
 - The system should have Optical Zoom /digital Zoom to enhance the quality of Image size & cross specialty standardization of the camera system , regardless of the telescope used
 - The system should automatically optimize all settings . The system should be ready to-use as soon as it is connected to the camera control unit .

III. HD 3 chip High definition Camera Control Unit

1. AGC : Microprocessor controlled
2. The system should have the following features:
 - a) Camera system should have at least two camera buttons to control the various functions of the camera from the camera head.
 - b) Should have the facility to add fiber optic filter
3. All the camera head button functions can be also controlled by the keyboard/touch screen from a non sterile field.
4. Video outputs – DVI, HD SDI, S-Video/S-Video Converter
5. DVI Connecting Cable
6. Power supply— 220-240 VAC 50/60 HZ
7. Should have safety certificate from a competent authority CE issued by a notified body registered in European Commission / FDA(US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL for camera system.

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IV. Medical Monitor

1. Medical grade 26" or more FULL HD LCD / LED flat pannel Monitor with color systems PAL,NTSC .
2. Maximum screen resolution 1920 x 1080 pixels, image format 16:9
3. Video inputs: DVI, HD-SDI, VGA, S-Video, Composite
4. Video outputs: DVI, HD-SDI,S-Video
5. Power supply 220-240 VAC, 50/60 Hz
6. Monitor Stand, with integrated cable channel, for use with monitor

V. Recording Device

1. HD Image capture facility with Inbuilt recording; should supply the necessary storage hardware – External or Internal hard disk /USB device of at least 500 GB (better preference will be given for higher storage capacity)-along with..
2. Should be able to take Video and still images during surgeries
3. The system should support to take still images from recorded video footages

VI. Cold Light Source:

1. Should have LED/XENON Light source
2. Long lamp life of minimum 10000 hrs
3. Bulb life counter / life indicator on light source
4. Standby mode
5. Universal jaw assembly to adapt any make of fiber optic cable
6. Fibre optic light cable with straight connector size 4.8 mm or above, length 250 cm or above.
7. Heat Resistant
8. Adjustable brightness control
9. Should have Light intensity indicator.

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1. Rigid Scopes: 0 Degree Nasal endoscope
 2. Suitable colour laser printer should be supplied along with the unit

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Wall Mounted Spot Light

Make : Please Specify

Model : Please Specify

Manufacturing country : Please Specify

Year of Launch : Please Specify

1. Intensity of light: Minimum 140000 LUX or more
2. Should be single head, wall mounted with minimum length 6 feet
3. Colour Rendering Index ≥ 95
4. Field size: Minimum 250 mm
5. LED LIFE: Minimum 50000 hours
6. Variable Colour Temperature Upto Minimum 5000 K or better
7. Brightness control: Adjustable
8. Material: Stainless steel for stand and castors
9. Power supply: 220V /50 Hz AC
10. Warranty: 2 Years

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HOLTER MONITOR

Make : pls specify

Model : pls specify

Year of launch : pls specify

Manufacturing Country : pls specify

1. PC Supported System with following specifications
2. Intel I5 processor
3. Windows licensed inbuilt OS
4. 8 GB RAM
5. 1 TB HDD
6. Monitor 21 inch or more
7. Computer table
8. Saved data should be read using integrated reading device
9. Three channel ECG recording facility
10. Supporting hardware with suitable software and laser printer
11. Adult patients
12. 5 or 7 or 10 lead cable with minimum 3 & 12 channel recording should be possible
13. Automatic cable type detection
14. Light weight
15. 24hrs, 48hrs,
16. True signal quality check with amplitude indication
17. QT/ST Analysis
18. LCD/LED Screen
19. Shock and splash-proof design
20. Suppress artifacts
21. Available scroll function for the over view (Super page) of the ECG
22. Should be able to read it individual form classes
23. Should be able to consolidate individual form classes

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- 24. System should be capable of analyzing various arrhythmias like ventricular ectopics, supra ventricular ectopic, ventricular tachycardia, ventricular fibrillation, supra ventricular tachycardia, atrial fibrillation, sinus pause
- 25. Operator should be able to edit and reclassify beats and arrhythmias
- 26. ST segment analysis should be available for all three channels
- 27. Any ECG print out should be possible
- 28. Report format should include covering page, arrhythmia analysis report, ST segment analysis, automatically and manually selected ECG strips
- 29. Should provide rechargeable battery and charger for recorders. Each recorder should be provided with 4 batteries and one charger

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Other terms and Conditions to be strictly followed by the Quotationers

1. Should have safety certificate from a competent authority CE issued by a notified body registered in the European commission / 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
2. The Model quoted must be latest and most advanced and spare and service must be available for at least 10 years which means company will be responsible for maintaining the equipment all 10 years in full working conditions at least 95 % Up time. AMC and CAMC Rate should be quoted in price bid for 8 years
3. Quotationers should conduct demonstration of the equipment in EMS Hospital, Perintalmanna at free of cost.
4. Standard warranty: 2 years
5. In case of failure of Equipment/Accessories/ Instruments, standby arrangements must be provided within 48 Hours.
6. Better preference will be given for user friendliness and better features

Please attach a copy of

- CE & FDA certificate if any
- Compliance statement with technical specification
- Product datasheet
- Details of service division
- Sales authorization letter from Manufacturer.
- Details of installations
- Company representative should be signed In purchase contract

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RIGID PENDANT

Functional & Technical Specifications

SCOPY PENDANT - RIGID PENDANT - 10 No's

Pendant Head Unit - 1000 mm & Loading Capacity - 150 Kg

The pendant should be made with 2.5 mm thick Aluminium with powder coated finish.

- 🔊 5 No's Gas Outlet - Oxygen - 2 No's , Vacuum - 2 No's & Air 4 Bar - 1 No
- 🔊 12 No's Electrical Socket - Suitable for got 6 A & 16 A Sockets
- 🔊 Adjustable IV pole & infusion pump pole - 1 Set
(Stainless steel 304 grade Matt Finish Material & Adjustable Bracket & Pole)
- 🔊 Provision for Monitor Stand
- 🔊 Multimedia: RJ45 - 1 No & RJ 11 - 1 No should provide.
- 🔊 Equipotential Points should provide - 2 No's
- 🔊 Tray: The trays / shelves should be made up of aluminium powder coated (Anti - bacterial) finish & stainless steel rail support should provide for accessories attachment).
- 🔊 Stem Pipe Dimensions should be (pipe size - 90 mm x 4 mm OD or more).
- 🔊 Stem pipe material: High grade steel pipe should used to suspend the system. The pipe is should Galvanized and powder coated.
- 🔊 Rotating Mechanism: High quality imported stainless steel bearing should be use for bearing block & Head service (column) box rotation assembly (330 rotations should possible).
- 🔊 Fasteners: Stainless steel fasteners 16 mm x 150 mm (Preferably Hilti or equivalent make).
- 🔊 Pendant Dimensions: 220 mm L x 220 mm B x 1000 mm H or more.
- 🔊 Tray Dimensions: 420 mm L x 300 mm W x 25 mm.
- 🔊 Tray Load Capacity: Maximum up to 20 Kg.

Terms & Conditions

1. Minimum 5 year experience in the field of undertaking the similar works.
2. Manufacturing experience of the manufacturer shall not be less than 10 years.
3. Original Equipment Manufacturers shall submit the "Manufactures Offer Form".
4. In case of Quotationer who is not the manufacturer of the equipment manufacture's Authorization Form should be submitted.
5. List of installations of the offered model (especially in Endoscopy Department).
6. Equipment should be recent model with technical literature, original brochure etc..
7. Quality standard shall conform (copy of quality certificates).
8. Equipment should conform the safety standards like NEPA, ISO 7396-1.
9. There should be comprehensive warranty of 5 years for the equipments.
10. There should be a Service Level Agreement (5 level SLA) consisting of Toll Free Number.