

**OFFICE OF THE EXECUTIVE ENGINEER(E/M),  
KGMU, LUCKNOW**

Letter No.:- Date-

**NOTICE INVITING E-TENDER**

Undersigned on behalf of honourable Vice chancellor , KGMU, UTTER PRADESH, Lucknow invites bids for the following works related with Annual maintenance Contract for Modular O.T. Shatabdi Hospital Phase-1, KGMU, U.P. Lucknow.

S. N.	Name of work	Bid security in Rs Earnest money deposit (EMD)	Cost of document (in Rs)+ GST)	Validity of tender	Time of completion of Work	Address of the Executive Engineer(E/M)
1	2	3	4	5	6	7
i	<p>Annual Maintenance contract work of 16(sixteen) Modular Operation theatres which are installed in shatabdi hospital Phase-1 King Geogs Medical University. <u>All spares / consumables / accessories/ non consumables etc. Will not be covered under Annual maintenance Contract charges; it should be clearly mentioned with frequency of replacement and with rate. The validity of rate of such items should also be mentioned clearly. What will be the rate of escalation on the quoted rate after expiry of the validity of rate of such item must be mentioned.</u></p> <p>Each Operation theatre will be consisting following items and works to be in the scope of repair and Maintenance commising work of AMC.</p> <p>Walls made of 10 mm high pressure laminate with both side antibacterial(back and front) hipercare/steripanel (imported as per EN standard) resistant, scratcproof , both side anti-bacterial during the whole lifecycle, light and heat resistant, water solvent and chemical resistant stain resistant, smooth surface, Hipercare/steripanel is resistant against humidity and disinfective cleaning detergent it should endure highest mechanical exposure without visible signs of wear it should be extraordinary long lasting. It should not be dented and/or scratched as this is the case with metal panels No hygrosopic gypsum board should be needed for reinforcement of Hipercare / Steripanel this should be capable of openings for additional electrical outlet x-ray viewers etc and should be cut easily also later on panels should be exchangeable for revision or replacement.</p>	<p>1,50,000.00</p> <p>At the time of bid submission (Refundble)</p>	20000+ GST	06 Months	60 Month	Executive Engineer(E/M), KGMU, Lucknow

ii.	<p>Ceiling system of operating room which is made of STERIPANEL/ hipercare (imported and us EN standard) both side antibacterial and made from 0.8 mm thick STERIPANEL both side with an average weight of 4.5 kg/sq. Mtrs.</p> <p>Material Class: A2-sl accord DIN EN 13501-1</p> <p>Fire resistance F30-F120 accord DIN 4102 Part 2</p>					
iii.	Clean Air System Complete Plenum system with mini pleat filters (CE marked) Imported.					
iv	Floor (imported and us EN standard) conductive floor should be made of two component anti-static resin of three different layer consisting of primer, self levelling and top layer, top layer is related chemically to harden the surface for longer durability and for case of cleaning and disinfection					
v	Corners made of round shaped aluminium profile, seamless integrand into the floor, inserted into the wall panelling(imported)					
vi	Doors standard size doors automatic sliding hermetically scaled made of high pressure laminate antibacterial STERIPANEL/ HIPERCARE imported and as per EN standard with glass vision window					
vii	<p>Peripheral light (imported) Peripheral light which have following features.</p> <ul style="list-style-type: none"> <li>. Luminaire body is dust proof, nearly bacteria proof, high degree of protection IP 65</li> <li>. IP 65 protection rating&gt; dust proof virtually bacteria proof</li> <li>. the meaning of IP 65</li> <li>. IP&gt; International Protection Rating</li> <li>. 6&gt; Object size protected against dust tight</li> <li>. No ingress of dust complete protection against contact</li> <li>. 5&gt; Water projected by a nozzle against enclosure from any direction shall have no harmful effects</li> <li>. Luminaire should be made of highly resistant laminated safety glass thus 100% shatter protection.</li> <li>. Adjustable reflector optical system should be individually adjustable to the conditions in the operating theatre.</li> <li>. it should not have interference on the infrared controls of the operating table</li> <li>. Endoscopic light Green light insert for use in the operating theatre especially for minimally invasive surgery with low illuminances.</li> <li>. plane glass with stylish fine grained surface dor eliminating uncontrolled reflections when using laser technology.</li> <li>. the body of the light is completely closed which prevent the entry of unwanted minute particles from the ceiling into the room thus making it highly suitable for the operating areas</li> <li>. switching and dimming of every individual lamp</li> <li>. green light for enfoscopy</li> <li>. smooth easy to clean and disinfacet surfaces</li> <li>. individually adjustable reflector =30 deg.</li> </ul>					

viii	<p>Celling Pendent for Anesthesia with spacer block and six gas valves and six electrical sockets with motorized movement (imported and us EN standard)</p> <p>Celling Pendent for surgery with spacer block and six gas valves and six electrical sockets with motorized movement (imported and us EN standard)</p>					
ix	<p>Imported Celling Mounted Dual Dome LED OT Light with following features.</p> <ul style="list-style-type: none"> <li>. 13000 Lux-14000Lux each dome</li> <li>. Dimming 7 steps</li> <li>. Focus</li> <li>.Light filed dis-180-320mm.</li> <li>. Color temp.- 4300k and minimum 216 LEDs</li> <li>. Endoscopy / Leproscopy green light, satin finish cover glass.</li> <li>. Colour rendering Index ra&gt;93, Safety glass, Light emitting surface one no built in video camera in either dome camera in either dome in the central handle with wireless remote control unit and OT light must be focusable with bulling camera.\</li> </ul> <p>Camera (Should be built in any one of the LED OT light dome) Camera super HADCCD pixels 440000 zoom 72x(18xoptical and 4xdigital) minimum lightening 1.0 lyx signal/ noise ratio 50db auto shutter 1/1 to 1/10000 22levels, horizontal arm. Spring arm and carrying arm and 19 flat screen monitor</p>					
x	Electric wiring + Fitting and fixtures insde O.T					
xi	Gas Pipe Line inside O.T					
xii	<p>Control Panel embrane type indigenous Operation Control Panel mounted flues in the theatre wall with distribution board complete with all accessorise the control panel comprising of the following-</p> <ul style="list-style-type: none"> <li>. 1 number day time digital clock</li> <li>. 1 number clasped time digital clock</li> <li>. 1 number hand free telephone</li> <li>. medical gas alarm</li> <li>. temperature and humidity display only</li> <li>. peripheral light controller</li> </ul>					
xiii	Twin Plate x ray viewing screen 0indigenous designed to provide a high level of control luminance (Dimming rang 3-100% flicker free) complete with all accessories etc.					
xiv	Operating Writing List Board indigenous of size 100mm x700mm x60 deep complete with all accessories etc.					

xv	3-Bay scrub station indigenous made out of SS 304 Brush finish 1.6 mm complete with all accessories i.e. touchless sensors with time control thermostatic mixing valve and with Inee bypass system etc.					
xvi	Dirty Hatch in operation theatre for removal of OT waste of the following features are installed Each hatch which are equipped with two doors the doors are operated electronically the hatch designed in such way that only one doors in open at one time the Dirty hatch comprises of MOC- 18 swg. SS 304, view panel-5 mm thick glass on both shutters and with UV light ON operational when doors are closed and of size 700 x700 x600mm					
xvii i	All the Hose Keeping works related to all Modular operation theatres will be the sole responsibility of the successful tenderor					

## Check List

(To be filled & submitted by the Tenderer in Tender Bid Part –I)

### **IMPORTANT INSTRUCTIONS TO THE TENDERERS**

**Your e-tender shall not be considered, if you fail to submit this proforma duly filled.**  
**Replies should be complete without ambiguity and should be clearly written against each item.**

Terms such as “Refer covering letter etc.” shall not be acceptable. You may, however, attach extra sheets, if the space is not sufficient.

SI. No.	Particulars	Page No	Enclose / Yes/No
A	Tender Fee No.....Dated..... (Non Refundable)		
B	Earnest Money (EMD) No.....Dated..... (shall be paid in shape of FDR for one year duration)		
C	General Terms and conditions		
D	Specification No. against which you have tendered		
E	Qualification of the bidder		
F	Bidding documents and evaluation Submission of bids		
G	Preparation of bids		
H	Submission of bids		
I	Bid opening and evaluation		
J	Award of contract based on financial bid		
K	Detail of proprietor/ partnership / company agreement copy		
L	Name & Address of the tenderer.		
M	Email Id of contractor		
N	Whatsapp number of contractor		
O	Mobile no. of contractor		
P	Are you ready to take CAMC for 5 years. (proforma A)		
Q	Are you ready to accept the bidding term & conditions in total.(proforma B)		
R	Furnish list of satisfied users giving (jobs performed by you) full details of job, amount of work etc. (proforma C)		
S	State your details of staff stating their qualification, experience etc.) (proforma D)		
T	Give your bankers details stating name of bank, branch, A/C no, type of A/C etc. (proforma E)		
U	Give details of your tool & plant on prescribed (proforma F)		
V	Give your Financial details stating your balance sheet, Assets etc for last three years by C.A. (financial year 2016-17 , 2017-18 & 2018-19)		
W	Whether you have been convicted black listed, punished, sentenced, bailed by any court of law. Notarized affidavit on Rs 10 Non Judicial Stamp Paper		
X	Give two references who can certify your financial status & capability to undertake such supply order one of the reference should be schedule Bank of India on tender's company letter head.		
Y	Pl. enclose the certified copy of the latest income tax clearance certificate/Income Tax return.		
Z	Whether all the schedule & documents required have been submitted or not?		
AA	What is your PAN No		
AB	What is your GST REG. NO		
AC	PF and ESI registration (Enclosed as Yes/ No)		
AD	Whether the tender have attached the one work order of similar work in minimum 300 bedded hospital in government/ semi government hospital.		
AE	Attached certificate company/firm modular Operation Theater manufacturer or authorized dealer/ distributor/ service provider		
AF	Tenderer or bidder will have to submit an under taking mentioning of Manufacture's consent to supply spare/consumable/non consumable/ etc. for the period of at least five years or more.		
<b>TECHNICAL SPECIFICATION AND PRICES</b>			
<div style="display: flex; justify-content: space-between;"> <div>Date:</div> <div>Signature of the Tenderer with Co. seal</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Place: Lucknow</div> <div></div> </div>			

## **General instruction to the Bidder**

### **A. Tender Fee.**

- A1. Bids must be accompanied by non-refundable tender fee, as indicated in the above table, to be submitted in the form of Demand Draft on any Nationalized Schedule bank, for amount indicated in favors of **"Finance Officer, KGMU, Lucknow"** payable at Lucknow. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened online on the next working day respectively, at the same time and validity of bid will be considered from the original date. The date and time of opening of the financial bid may be notified on website. The Financial bids shall be accordingly opened online.
- A2. Tender fee and Bid security has to be submitted or reach before the scheduled date of submission of Bid to the office of the Executive Engineer(E/M), KGMU, Lucknow.
- A3. The Contract shall be for the whole Works as described, based on the Bill of Quantities submitted by the Bidder.
- A4. The Bidder shall adopt the unit rate Method as specified in the Appendix; only the same option is allowed to all the Bidders.
- A5. All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.
- A6. The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.

### **B. Earnest Money.**

- B1 The Bidder shall furnish, as part of the Bid, Earnest Money, in the amount specified.
- B2. The Earnest Money shall, deposit shall be in the from of either FDR or bank guarantee of nationalized bank only in favor F.O. A scanned copy of earnest money document will be submitted along with the tender.
- B3. Any bid not accompanied by an acceptable Earnest Money, shall be rejected by the King George's Medical University U.P Lucknow..
- B4. The Earnest Money of unsuccessful bidders will be returned/ can be collected within 28 days of the end of the Bid validity period specified.
- B5. The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security or shall .
- B6. The Earnest Money may be forfeited:
1. In the case of a successful Bidder, if the Bidder fails within the specified time limit to
    - a. Sign the Agreement; and/or
    - b. Furnish the required Performance Security.
- B7. 10% of the annual contract Value shall be submitted by the successful tenderer as security deposit in the from of bank guarantee/FDR of any nationalized bank in favour of finance officer King George's Medical University U.P Lucknow. for a period of 66 month withier 15(fifteen) days from the date of award of bid by the King George's Medical University U.P Lucknow. shall be entitled to claim/adjust any due amount from the said security deposit.

## **C. General Terms and conditions**

- C1. There are 16 (Sixteen) nos. of Modular Operation Theatres in the department of Shatabdi Hospital Phase-1, King George's Medical University.**
- C2. AMC refers to Annual Maintenance Contract which means that cost of all the repair works/ replacing work will be borne by the successful tenderer.**
- C3. The place of maintenance of the equipments will be inside the Institute. In the event of any major break down, when repairs cannot be carried out at the Institute, the defect will be got rectified at any service centre, as the successful tenderer may think proper after approval of the authorized officials of the Institute but dismantling, packing, forwarding, transportation and insurance charges etc. if any would be borne by the successful tenderer.**
- C4. The successful tenderer will ensure the preventive maintenance of all the equipment and accessories as per the schedule of the manufacturer of the equipment. In case schedule for any of the equipment is not available, the maintenance work will be carried out as per discussion with Engineer In charge/ HOD of the concerned department.**
- C5. The successful tenderer will attend all type of minor or major breakdown within 24 hours.**
- C6. A sufficient quantity of spares/consumables for maintenance should be kept at site to minimize time of maintenance. As far as possible, all spares/consumables parts shall be of same make & type as installed OR equivalent.**
- C7. Tenderer or bidder will have to submit an undertaking mentioning of Manufacturer's consent to supply spare/consumable /non consumable/etc. for the period of at least five years or more.**
- C8. The successful tenderer will depute one skilled personnel. He will visit operation theaters daily and will receive complaints. He will take immediate action to remove the complaints and if he is unable to remove complaint, then he will intimate to successful tenderer immediately. The successful tenderer will arrange to remove complaint by sending other skilled personnels.**
- C9. The successful tenderer will provide mobile phone to his skilled personnel to attend any telephonic complaint immediately. He will maintain record of daily complaints.**
- C10. For any type of maintenance/repair, if shutdown is required, then permission of shutdown period from the department of Shatabdi Hospital Phase-1 will be obtained properly by the successful tenderer.**
- C11. If some items are added in operation theaters in future, after tendering, then maintenance cost for these added items, will be decided by mutual discussion between Institute and the successful tenderer.**
- C12. As HVAC (heating ventilation and air conditioning) System associated with each Modular Operation Theatre is an essential part of the Modular Operation, utmost care is to be taken for its proper maintenance. Failure of HVAC System or improper temperature or failure in replacement of fresh air inside the operation theatre as prescribed will be considered as shut down. Tenderer is suggested to keep tie up with its manufacturer for AMC of complete system with them to ensure proper and uninterrupted functioning.**
- C13. The tenderer who is submitting the tender would be deemed to have considered and accepted all the terms and conditions of tender.**
- C14. Any tender being received after the mentioned date and time in the Notice Inviting tender will be rejected.**
- C15. The incomplete tender in any respect or not complying with the terms and conditions are liable to be summarily rejected.**
- C16. The tender should be submitted in prescribed format. The tender not submitted in prescribed format is liable to be rejected.**

- C17. The successful tenderer OR his worker shall have to follow the instructions given to him from time to time by the Competent Authority of the Institute and violation of which may result in cancellation of the contract.
- C18. The successful tenderer shall pay compensation for any loss or damage of property of the Institute/ Patients caused by his workers.
- C19. The successful tenderer shall comply with all instructions/ direction /rules and regulations of any statutory authority and discharge all obligations, imposed upon him by the statutory authorities or under any law and shall indemnify the Institute and officers/ employees from any claim or consequences/ damages for any lapse or non compliance thereof.
- C20. The successful tenderer will be responsible for any accident or mishap or death of workers engaged by him and any claim made on this account will be paid by the successful tenderer, the successful tenderer will also indemnify the Institute from any claim in this regard.
- C21. The workers of the successful tenderer shall not be treated as employees of the Institute in any case and successful tenderer will be solely responsible for their affairs and will be under obligation to comply with the statutory obligations.
- C22. The tenderers are suggested to carefully go through the terms and conditions of the document before offering his/ their rates.
- C23. The tenderers are also advised to take a visit and see the entire operation theatres at the Institute during working hours to know installed items in operation theatres and make enquiry with Executive Engineer (E/M)/ Assistant Engineer(E/M)/ Junior Engineer(E/M) /Bio-Medical Engineer/ of the University, before tendering.
- C24. If the successful tenderer fails to start the work in stipulated time as per award letter/ acceptance letter of the University, the award letter/ acceptance letter may be cancelled and EMD may be forfeited.
- C25. PERIOD:-
1. The period of the work will be of Five years. Initially the tender will be awarded for a period of one year and it will be extendable / renewable for next years, the price escalation in renewal of the contract for another Four years will be considered as per money inflation rates (price index) of RBI. The renewal will be on the receipt of satisfactory performance report and recommendation for the same from Executive Engineer In charge/ HOD of the department.
  2. Contractor/ Successful tenderer cannot stop working without giving notice of not less than three months and the successful tenderer will continue working till proper arrangement is made by The University, even after expiry of three months.
- C26. PAYMENT:-
1. The payment will be made for six months on presentation of bill, after satisfactory work, on the recommendation of Engineer In charge/ Nodal Officer.
  2. Financial rules will be followed.
- C27. SETTLEMENT OF DISPUTE AND ARBITRATION:-
1. If any dispute or difference arises between the parties relating or concerning to interpretation of the contract or any alleged breach thereof of any matter relating to this contract, the same shall be settled by the parties as far as possible by mutual discussions and consultation between themselves, whether the same has arisen during the subsistence of this contract or thereafter.
  2. In the event of any dispute or differences arising in connection with this tender whether during the subsistence of the contract or there after not being settled in aforesaid manner, the matter shall be referred to The Hon'ble Vice Chancellor, whose decision shall be final and binding on both the parties.



3. If in any case dispute arises having in consideration following above points therefore, the settlement will be in the view of Lucknow jurisdiction.

**C28. PENALTY:-**

1. If there is complaint in O.T., but O.T. is functional and under use, then time allowed to remove complaint will be 72 hours. If complaint is not removed in 72 hours, then penalty of Rs. 5, 000/- per day shall be imposed on the successful tenderer.
2. If complaint is not removed and O.T. becomes Non functional, then the penalty of Rs. 10, 000/- per day will be imposed on the successful tenderer, from the date of being O.T. non functional.
3. If complaint persist long time, then Institute may forfeit security money and may cancel the contract after giving show cause notice to the successful tenderer.

**C29. STAMP DUTY:-**

1. Stamp duty liveable on agreement to be executed between the Institute and successful tenderer shall be borne by the successful tenderer.

**C30. TERMINATION OF CONTRACT:-**

1. Either party shall be entitled to terminate the contract with three full calendar months notice in writing to the other party. However, the successful tenderer shall have to carry on services even after the expiry of said period till alternative arrangement is made by the Institute.

**C31. TERMINATION OF AGREEMENT:-**

1. After giving opportunity of being heard to the successful tenderer, Institute may terminate/ cancel the agreement forthwith on the following grounds:-
  - a. Breach of anyone or all terms and conditions of agreement.
  - b. Non-performance or unsatisfactory performance of work.
  - c. Any documents or information furnished by the successful tenderer is found forged or fabricated at any time.

**C32. Special Terms & Conditions:**

1. During Annual Maintenance Contract, bidder shall provide at least four maintenance visits per year at regular interval for usual maintenance and supervision. If bidder fails to provide these maintenance visits at regular interval per year, a proportionate deduction in the form of penalty at the rate of 25% of contract amount per year will be deducted.
2. During Annual Maintenance Contract, bidder will make the "Complete System" (as described in Annexure – I) in satisfactory working condition. In case, any spare parts, accessories, PCB, all type of consumables etc. needs replacement due to normal wear and tear; bidder will supply and install the same for which additional payment is to be made. All spares / consumables / accessories/ non consumables etc. will not be covered under Annual Maintenance Contract charges; it should be clearly mentioned with frequency of replacement and with rate. The validity of rate of such items should also be mentioned clearly. What will be the rate of escalation on the quoted rate after expiry of the validity of rate of such item must be mentioned.
3. In case, the bidder is not able to provide services (and the items / accessories is not functioning as the reason thereof) due to natural calamity (act of God), Political unrest, Riot and fire at the user site, then in such a situation the Annual Maintenance Contract will be extended by the period for which the item / accessories could not be operated because of supplier not been able to provide services.
4. The offered warranty & Annual Maintenance Contract period should includes:
5. The selected agency shall check air quality, maintenance and replacement of HEPA Filters whenever required during the Annual Maintenance Contract period.
6. Shall do Testing & calibration as per technical/service/operation manual of the manufacturer or as per the period specified or as per the demand of the user Department of the University.

**C33. Quality Assurance tests (if applicable).**

1. Successfully tendered will have to give a written undertaking that it will be his responsibility to test and maintain all the equipment (during AMC) which is fitted in the OT facility and this will include air quality inside the OT and periodic maintenance of the HEPA filters and other maintenance & checks of the Laminar flow system, scrub stations, Automatic door systems, OT Control Panel systems, X-Ray Viewing Systems, Peripheral Lighting, etc(Including other items mentioned in the scope of work).
- C34. The contractor should have solvency certificate of competent authority.
- C35. The King George's Medical University U.P Lucknow. will have the right to reject/cancel all or any of the tender without assigning any reason.
- C36. Tender Shall be given only to those contractors who have done same kinds of works/ new works and who have successfully completed at least 1 jobs of the same kinds and their turnovers not less then 1corer in a financial year
- C37. Bid document with detailed terms and conditions will be available online on website <http://etender.up.nic.in> as specified.
- C38. Bids must be submitted online only at e-tendering portal of <http://etender.up.nic.in> as specified.
- C39. Technical Bid received online will be opened as specified.
- C40. The prospective bidders who do not possess Digital Signature Certificate (DSC) must get the same issued from approved agencies before submission of bids.
- C41. The bids shall remain valid for acceptance for a period of at least Three Months from the date of opening of bids.
- C42. Bids once submitted cannot be withdrawn.
- C43. Bids must be accompanied by non-refundable tender fee, as indicated in the above table, to be submitted in the form of Demand Draft on any Nationalized Schedule bank, for amount indicated in favors of "Finance Officer, KGMU, Lucknow" payable at Lucknow. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened online on the next working day respectively, at the same time and validity of bid will be considered from the original date. The date and time of opening of the financial bid may be notified on website. The Financial bids shall be accordingly opened online.
- C44. Tender fee and Bid security has to be submitted or reach before the scheduled date of submission of Bid to the office of the Executive Engineer (E/M), KGMU, Lucknow.
- C45. The successful tendered has to deposit 10% of quoted value/ 10% of work order value in tender as performance security( valid for 66 months) at the time of signings of final agreement.
- C46. Relatives of contractors of KGMU are not entitled for the bidding.
- C47. Bid documents and other details consisting of qualification information and eligibility criterion of bidders, plans, specifications, drawings, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the Contractor can be seen in the office of the Executive Engineer (E/M), KGMU, Lucknow between hours of 12.00 Noon and 04.00 PM on any working day between from \_\_\_\_\_ To \_\_\_\_\_.
- C48. The bidder will have to furnish latest character certificate issued by the DM concerned not older than one year
- C49. Any bidder who is registered with the state Bar Council is not allowed to participate in the bidding process.
- C50. Bidder should have successful completed similar work in a hospital of 300 beds or more during the last three years reckoned with backward unit reference to the last date of bid submission.
- C51. The Bidder should minimum audited annual turnover 1.00 Corer in similar work.
- C52. Supply order of All spares/consumables/accessions/non consumables etc. which are not considered under AMC charges can be given to any other competitive firm which qualifies under tender conditions.

## **D. Specification of work**

### **D1. CONTROL PANEL**

1. **Power Supply:** 12V, 15Amp DC power supply for energizing all electronic circuitries.
2. **Clock PCB:** Printed Circuit Board for On/Off and time setting operations of the clock.
3. **Clock Display:** Main Clock unit which shows the real time
4. **Elapsed Time PCB:** Printed Circuit Board for On/Off and Start/Stop operations of elapse time display.
5. **Elapsed Time Display:** To show the elapsed time
6. **Temp/Humidity PCB:** Printed Circuit Board on which Analog to Digital conversion and processing takes place for Temp./Humidity display.
7. **Temp/Humidity Display:** for display of OT temperature/ humidity
8. **Temp/Humidity sensor:** for sensing OT temperature/ humidity
9. **Gas Alarm PCB:** Printed Circuit Board for processing of Gas Alarm display.
10. **Gas alarm display:** for displaying alarm status of the medical gases
11. **Gas alarm pressure sensors:** for sensing gas pressure.
12. **Vacuum alarm PCB:** Printed Circuit Board for processing of Vacuum Alarm.
13. **Peripheral light control PCB:** Printed Circuit Board for On/ Off and intensity control operations of Peripheral Lights.
14. **Peripheral light control Switches:** To On/Off the Peripheral Lights
15. **Plenum Light control PCB:** Printed Circuit Board for On/ Off operation of Plenum lights.
16. **Plenum light control switches:** To On/Off the Plenum Lights
17. **Relay control card:** To apply power supply to the Electronic circuits and systems safely.
18. **Plastic skin:** Covering front panel on which all the operating functions are labeled.
19. **Telephone PCB:** Printed Circuit Board for operation of Telephone.

### **D2. X-RAY VIEW BOX**

1. **Power supply:** To drive Tube lights and energize concerned electronic circuit.
2. **Control PCB:** Printed Circuit Board for housing electronic components concerning to intensity control circuit.
3. **Switching PCB:** Printed Circuit Board for On/Off and intensity control operation of Tube lamps.
4. **Variable voltage ballast:** Main unit to vary intensity of Tube light.
5. **Tube Lights:** For illuminating Acrylic sheet screen.
6. **Plastic skin:** For covering control soft switches.
7. **Acrylic sheet:** For mounting X-ray films.

### **D3. PLENUM**

1. **HEPA filter:** For filtration of atmospheric air into clean air to the Operation theatre.
2. **Diffuser Cloth:** Installed on the Laminar flow system to create uniform flow of clean air from the diffuser face into the total area of Operation theatre.
3. **Spring Clamps:** For fixing diffuser cloth panel on the laminar flow system in such a way that they are easily removable for service and repair.

### **D4. PERIPHERAL LIGHTS**

1. **Ballast:** 54W Ballast to drive tube lights in the peripheral lights
2. **54w Tube Light:** To provide an illumination in operating area.
3. **Reflective surface:** To get the light effectively and efficiently in the Operating room.
4. **Diffuser Glass:** To cover the peripheral lights

#### **D5. CAMERA**

1. **Control PCB:** Comprising DC -DC converter and DC power splitter for camera and light.
2. **Camera power supply:** 12V, 500mA DC power supply to drive camera system
3. **Camera CCD:** This is an integral part of the digital Camera which convert light to electrons.
4. **Camera mother board:** This is the main PCB which holds and allows communication between all the crucial electronic parts of the system.
5. **Convertor PCB:** Which converts light signals entering to the camera into digital signal.

#### **D6. MONITOR**

1. **Monitor PCB:** Analog to digital conversion/ communication between camera and monitor .
2. **Monitor Power supply:** 12V 12Amp DC power supply for working the Monitor display.
3. **LCD display:** This is a liquid crystal display to produce images.
4. **Control PCB:** Controls the viewing options and/or adjust components such as brightness, color, contrast and vertical & horizontal positioning of the display.
5. **On/off knob:** For switching on and off the Monitor.

#### **D7. PENDANT**

1. **Power supply:** To energize the pendant control circuits and motor.
2. **Motor:** For driving the pendant mechanism.
3. **Relay PCB:** To control up-down movement of the pendant.
4. **Limit Switch:** To limit the up and down movement of pendant in a predetermined range.
5. **Gear Mechanism:** To reduce the drive speed as required.
6. **Gas outlets:** Outlets for Oxygen, Nitrous, Air, Vacuum etc.
7. **Pneumatic brakes:** To stop the movement of pendant at a required position, precisely.
8. **Power supply switch:** To control power supply to the electronic circuitry.
9. **Power supply socket:** Mains Power supply outlets required for different equipment used in OT.
10. **Bearings:** To provide smooth movement of Pendant Mechanism.

#### **D8. DOOR**

1. **Power supply:** 230V AC - 46V DC power supply for door controller unit and motor.
2. **Control unit:** Mounted on guide rail for all activation purposes, time adjustment, rolling resistance control, opening speed and closing speed programmable.
3. **Motor:** 40 V DC, mounted on guide rail for propulsion of door leaves via rubber tissue gear belt.
4. **IR sensor:** Presence detecting sensor.
5. **Belt:** To move door panels forward and backward.
6. **Glass window:** To view from both sides to other side, while the door is closed.
7. **Roller:** Ball bearing with duro-plastic rolls for moving door.
8. **Door stopper:** To stop the Door panels when reaching at the end
9. **Guiding rollers:** Duro-plastic lead lobes on bottom running rail
10. **Anti Jumper blocks:** To avoid slipping out of door panel from the guide rail

#### **D9. DIRTY HATCH BOX**

1. **Power supply:** Adapter: 12V/ 24V adapter for the UV light and its control units.
2. **Control unit PCB:** Printed Circuit Board for electronic controls of opening & locking of the doors.
3. **Timer PCB:** To keep the UV lights ON for a fixed duration after closing both doors.
4. **Magnetic lock:** For locking the door electro-magnetically.

5. **Display:** For showing open/close status of the doors, can be monitored from both sides of the hatch box
6. **Ultra Violet Light:** Installed inside the hatch box, which helps to kill microbes on the dirty waste materials.

#### **D10. Scrub Sink**

1. **PCB/Sensor for automatic flow:** Printed Circuit Board with infra-red sensor for control of water with user defined adjustments to meet individual application requirements (hands free scrub)
2. **Thermostatic mixture:** To sense water temperature for maintaining constant water temperature.
3. **Shower Tap:** Water outlet for water flow.
4. **Power supply:** To energize electronic / control circuitry.
5. **Solenoid Value:** For actuating release of water on sensing the hand of the surgeon.
6. **Manual foot/knee operational valve:** For bypassing water to avoid inconvenience caused when electronic system failures.
7. **Mixer valve:** For mixing Hot & Cold water as required.

#### **D11. LED Lights**

1. **Control PCB:** Printed Circuit Board for On/ Off operation and intensity control of the surgical light.
2. **LED PCB:** On which LEDs are mounted with suitable driving components.
3. **Power supply:** 24V, 15Amp DC power supply to drive OT light
4. **Glass:** To cover the front side of the unit to protect from Infrared rays' emission.
5. **Bearings:** For smooth movements of spring arms
6. **Connectors 5 pole:** Connecting DC power supply to and camera signals from the Light Camera System.
7. **Connectors 3 pole:** Connecting DC power supply to the Light System.
8. **Spring arm:** Upper part of the Light Camera system fixture.
9. **Light arm:** Lower part of the Light Camera system fixture.

#### **D12. Gas Pipeline inside OT**

1. **Vacuum outlet:** To access the Vacuum
2. **Oxygen outlet:** To access Oxygen
3. **Nitrous outlet:** To access Nitrous
4. **Air outlet:** To access Air
5. **AGSS:** To access Anesthetic Gas Scavenging System
6. **Pressure switches:** Pressure switches as sensing devices in audio visual alarms for Oxygen, Nitrous Oxide & Compressed Air System

#### **D13. Antistatic flooring**

1. **Floor Conductive floor** is made of two component anti- static resin of three different layer consisting of primer, self-leveling and top layer. Top layer is treated chemically to harden the surface for longer durability and for ease of cleaning and disinfection.

#### **D14. Pressure Release Damper: PRD to maintain positive pressure inside operation room**

#### **D15. Electrical Installation**

- a) **Switch:** To control Electrical power supply to the Power outlets.
- b) **Socket:** Electrical power supply receptacle.

## **E. Qualification of the Bidder**

- E1. All bidders shall provide Forms of Bid and Qualification information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- E2. All bidders shall include the following information and documents with their bids.  
Qualification Information unless otherwise stated:
- E3. copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
- E4. the bidder shall have to take compressive annual maintenance contract for at last five years.
- E5. King George Medical University can reject any or all bids without assigning any reason.
- E6. Each bidder is required to furnish an affidavit online on -a non-judicial stamp paper of Rs. 100/- giving all information on prescribed Performa "TENDER PROFORMA A " required for evaluation of the bidding capacity of the bidder.
- E7. Company formation deed.
- E8. PF registration details.
- E9. ESI registration details .
- E10. Profit and loss & balance sheet of 3 years with latest income tax clearance.
- E11. Affidavit on Rs 10/- stamp paper showing that Details of the tools and plants as per format "TENDER PROFORMA F".
- E12. Bids from joint venture are not allowed.
- E13. The bidder should have at least last five years of experience in the same kind of business.
- E14 Each bidder must attach:
1. The current income-tax clearance certificate or income tax return along with three years balance sheet and profit and loss.
  2. An affidavit that the information furnished with the bid documents is correct in all respects; and
  3. the bidder do general tender document is non-transferable
- E15. Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:
1. Misleading or false representations in the forms, statements, affidavits and attachments.
  2. Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc will disqualify bidder.
- E16. Site Visit
1. The Bidder, at his own cost, responsibility and risk, is required to visit, examine and familiarize himself with the Site of Works and its surroundings including source of earth, water, road aggregates etc. and obtain all information that may be necessary for preparing the Bid and entering into a contract for. The costs of visiting the Site shall be at the Bidder's own expense. The bidder may contact office of Executive Engineer (E/M), KGMU, Lucknow for inspection of site or any clarification if required.

## **F. Bidding Documents and Evaluation**

### **F1. Content of Bidding Documents**

- i. The set of bidding documents comprises the documents listed below:
  1. Notice Inviting Tender
  2. Instructions to Bidders (ITB) contains:
    - A. GENERAL
    - B. Bidding Documents and Evaluation
    - C. Preparation of Bids
    - D. Submission of Bid
    - E. Bid Opening and Evaluation
    - F. Award of Contract
- ii. Bidding document will be available online on the website <http://etender.up.nic.in>

### **F2. Clarification of Bidding Documents:**

1. The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms and specifications, bill of quantities and forms and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk.

### **F3. Amendment of Bidding Documents**

1. Before the deadline for submission of bids, the King George's Medical University U.P Lucknow. reserves to right to modify the bidding documents by issuing corrigendum online.
2. Any corrigendum thus issued shall be part of the bidding documents.
3. To give prospective bidders reasonable time in which to take an corrigendum into account in preparing their bids, the King George's Medical University U.P Lucknow. may extend, as necessary, the deadline for submission of bids.

## **G. Preparation of Bids**

### **G1. Language of Bid**

1. All documents relating to the Bid shall be in the language specified. i.e. English.
2. Bid shall be 2 bid system.
  - i. Part I This shall be named Technical Bid and shall comprise of:
    - a. Earnest Money;
    - b. Qualification information, supporting documents, affidavit etc.
    - c. Undertaking that the bid shall remain valid for the period specified.
    - d. Any other information / documents required to be completed and submitted by bidders, as specified and
    - e. An affidavit affirming that information he has furnished in the bidding document is correct to the best of his knowledge and belief.
  - ii. Part II. It shall be named Financial Bid and shall comprise of:
    - a. Bill of quantities for items and their price.

## **G2. Bid Prices**

1. The Contract shall be for the whole Works as described, based on the Bill of Quantities submitted by the Bidder.
2. The Bidder shall adopt the unit rate Method as specified in the Appendix; only the same option is allowed to all the Bidders.
3. All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.
4. The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.

## **G3. Bid Validity**

1. Bids shall remain valid for a period of 6 months after the deadline date for bid opening.
2. In exceptional circumstances, prior to expiry of the original time limit, the King George's Medical University U.P Lucknow. may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing. A bidder may refuse the request without forfeiting his Earnest Money. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his earnest money for a period of the extension.

## **G4. Earnest Money**

1. The Bidder shall furnish, as part of the Bid, Earnest Money, in the amount specified.
2. The Earnest Money shall, deposit shall be in the from of either FDR or bank guarantee of nationalized bank only in favor F.O. A scanned copy of earnest money document will be submitted along with the tender.
3. Any bid not accompanied by an acceptable Earnest Money, shall be rejected by the King George's Medical University U.P Lucknow..
4. The Earnest Money of unsuccessful bidders will be returned/ can be collected within 28 days of the end of the Bid validity period specified.
5. The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security or shall .
6. The Earnest Money may be forfeited:
  - i. In the case of a successful Bidder, if the Bidder fails within the specified time limit to
    - a. Sign the Agreement; and/or
    - b. Furnish the required Performance Security.

## **H. Submission of Bids**

### **H1. Sealing and Marking of Bids**

- i. The Bidder shall have to bid online separately for Technical and financial bid
  - a. Technical Bid: To be opened at Date & time of Technical Bid opening



- b. Financial Bid: Not to be opened except with the approval of the Executive Engineer (E/M), King George's Medical University U.P Lucknow.

## **H2. Deadline for Submission of Bids**

1. Complete Bids (including Technical and Financial) must be received by the Executive Engineer (E/M), King George's Medical University U.P Lucknow. not later than the date and time indicated.
2. The King George's Medical University U.P Lucknow. may extend the deadline for submission of bids by issuing an amendment in accordance with Clause, in which case all rights and obligations of the King George's Medical University U.P Lucknow. and the bidders previously subject to the original deadline will then be subject to the new deadline.

## **H3. Late Bids**

1. No Provision/Consideration on Late Bid/Bids Submission\

## **I. Bid Opening and Evaluation**

### **2. Bid Opening**

- i. The King George's Medical University U.P Lucknow. will open the bids received, online in the presence of the bidders/bidders' representatives who choose to attend at the time, date and place specified. In the event of the specified date for the submission of bids being declared a holiday for the King George's Medical University U.P Lucknow., the Bids will be opened at the appointed time online on the next working day.
- ii. The technical bid shall be opened online.
- iii. The King George's Medical University U.P Lucknow. will prepare minutes of the Bid opening, including the information disclosed to those present in accordance.
- iv. Evaluation of the technical bids with respect to EMD(Earnest Money Deposit), qualification information and other information furnished in Part I of the bid in pursuant, shall be taken up and completed within Ten working days of the date of bid opening, and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
- v. The King George's Medical University U.P Lucknow. shall inform, by E-mail (or otherwise the bidders, whose technical bids are found responsive, date, time and place of opening as stated. In the event of the specified date being declared a holiday for the King George's Medical University U.P Lucknow., the bids will be opened at the appointed time online on the next working day, the bidder or their representative, may attend the meeting of opening of financial bids.
- vi. At the time of the opening of the 'Financial Bid', the names of the bidders whose bids were found responsive in accordance will be announced. The responsive bidders' names, the Bid prices, the total amount of each bid, and such other details as the King George's Medical University U.P Lucknow. may consider appropriate will be announced by the King George's Medical University U.P Lucknow. at the time of bid opening. Any Bid price, which is not read out and recorded, will not be taken into account in Bid Evaluation.

## **J. Award of Contract Based on financial Bid :**

- J1. After opening of financial bid comparative statement of rate quoted by tenderer will be made by king George medical university. Lucknow. the minimum price quoted by tenderer as mentioned in "Grand Total" of financial bid. Shall be successful tenderer subject to fulfilling other term and conditions of the contract.

**TENDER PROFORMA A**

**TERMS AND CONDITION FOR**

**CAMC, DEPLOYMENT OF OPERATION STAFFS**

**AT KGMU, LUCKNOW**

I/we/ M/S..... is hereby agree to take Annual maintenance Contract for Modular O.T. with Spare Parts Shatabdi Hospital Phase-1, KGMU, U.P. Lucknow. for a period of five years. Further we are also agree to provide sufficient number as instructed of trained/and skilled fire guards/fire operators to operate the system.

**Executive Engineer(E/M),**

**KGMU, Lucknow**

## **TENDER PROFORMA B**

### **Acceptance of Bidding terms& conditions**

To,

Date:

The Executive Engineer (E/M)

KGMU, Lucknow.

#### **Description of the work :- AS PER DISCRIPTION**

I/We offer to execute the works described above and remedy any defects their in conformity with the conditions of contract, specifications, drawings, bill of quantities and addenda for unit rate as quoted online in DISCRIPTION at par with the rate entered in the Schedule of rate.

1. We undertake to commence the works on receiving the notice to proceed with work in accordance with the contract documents.
2. This Bid your written acceptance of if shall constitute a binding contract between us. We understand that you are bound to accept the lowest or any Bid you receive.

We hereby confirm that this bid complies with the Bid validity and earnest money required by the bidding documents.

Authorized Signature :- \_\_\_\_\_

Name and title of Signatory:- \_\_\_\_\_

Name of bidder :- \_\_\_\_\_

Authorized Address of Communication:- \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone No(s): (Office) :- \_\_\_\_\_

Mobile No :- \_\_\_\_\_

Facsimile (FAX) No :- \_\_\_\_\_

Electronic Mail Identification (E-mail ID) :- \_\_\_\_\_

## TENDER PROFORMA C

Details of Experience of same nature.

1	SL. NO.	
2	Project Name with Address	
3	Name of Organization	
	Description of Work	
4	Value of Contract	
	Contract No.	
5	Date of issue/ Commencement As per contract	
6	Stipulated Date of Completion	
7	Actual date of completion	
8	Remarks Explaining Reasons for Delay, if any.	

## TENDER PROFORMA D

### Details of the Staff.

S.N.	Position	Name	Age	Qualification	Experience (years) in general
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

## **TENDER PROFORMA E**

### **SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES**

#### **BANK CERTIFICATE**

This is to certify that M/S ----- is a reputed company with a good financial standing.

If the contract for the work, namely, \_\_\_\_\_ is awarded to the  
above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. \_\_\_\_  
\_\_\_\_\_ to meet their working capital requirements for executing the above contract.

**Signature of Senior Bank Manager**

.....

**Name of the senior Bank Manager**

.....

**Address of the**

**Bank.....**

**Stamp of the Bank**

**Note: Certificate should be on the letterhead of the bank.**

## TENDER PROFORMA F

### Tools and Plants

Item Of Equipment	Nos.	Owned leased/ To be procured	Availability Proposal Nos./ Capacity	Year (Model)/ Condition

## **TENDER PROFORMA G**

### **SAMPLE FORMAT**

### **UNDERTAKING**

This is to confirm that the bidder \_\_\_\_\_ is not involved in any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter and the bidder have not been convicted/black listed.

Also bidder M/s \_\_\_\_\_ have not been black listed , bailed punished, sentenced by any court of law.

**Signature of Bidder**

**Seal of the Bidder**

**(On Non Judicial Stamp Paper of Rs 10/-)**



**KING GEORGE'S MEDICAL UNIVERSITY U.P LUCKNOW.  
UTTER PRADESH**

**Executive Engineer(Electrical/Mechanical)  
KGMU, LUCKNOW**

**SHAH MINA ROAD, LUCKNOW,  
UTTER PRADESH- 226003**

**COVER- 2  
FINANCIAL BID**

**FOR THE WORK: AS PER DESCRIPTION**

