

HEALTH & MEDICAL EDUCATION DEPARTMENT



PURCHASE COMMITTEE NO:2

(RATE CONTRACT COMMITTEE)

GOVT. MEDICAL COLLEGE JAMMU

TENDER DOCUMENT

Tender Notice NO. 12 OF 2010

NAME OF THE GROUP : **MACHINERY & EQUIPMENTS(ADDITIONAL ITEMS)**

FOR THE YEAR : 2010-11

Pre Bid Meeting on : 06-12-2010 at 12:30p.m.

Last Date of Sale of Tender : 16-12-2010 upto 04:00 p.m.

Last Date of Submission of Tender : 18-12-2010 upto 04:00 p.m.

Date of Opening of Tender : 21-12-2010 at 11:00 a.m.

Or any date convenient to the Committee

Place of Enquiry & Sale of Tender:

Office of the Purchase Committee
Govt. Medical College
Jammu/Srinagar.

Place of Opening of Tender :

Office of the Purchase Committee No-II
Govt. Medical College
Jammu.

GOVT. MEDICAL COLLEGE JAMMU
PURCHASE COMMITTEE No. 2
HEALTH & MEDICAL EDUCATION DEPARTMENT

TENDER NOTICE 12 OF 2010

For and on behalf of the Governor of Jammu & Kashmir State, Sealed Tenders affixed with Rs.5/- revenue stamps are invited from the Original Manufactures/Firms who are already registered with Health & Medical Education Department of J&K State, for the Group "**Machinery & Equipments (Additional items)**" As per detailed specifications given in the Tender documents for the year 2010-11.

These tender documents can be had on written request during all working days upto **16-12-2010** against the Non-refundable cash amount of Rs. 500/-in general and Rs.100/-for local SSI Unit holders from the office of the Principal, Govt. Medical College, Jammu/Srinagar.

The details of the tender documents are also available on the website i.e www.gmcahjammu.org. **Such tenderers who are registered with the Health & Medical Education Department, J&K may download the tender document from the website, but in that case a draft of Rs. 500/- (Rupees five Hundred Only) for General and Rs. 100/- (one hundred) (for SSI Unit) as the case may be payable to Member Secretary Purchase Committee No:-II, Govt. Medical College Jammu as cost of tender should be enclosed otherwise the tender shall be rejected.**

The tender on the prescribed proforma shall be submitted in a single big size envelop containing three envelopes one for "**Technical Bid**" second for "**Financial Bid, in original**" and third for "**Financial Bid in Duplicate**" duly sealed and super-scribed as tender for "**Machinery & Equipments (Additional items)**" **the year 2010-11** addressed to the **Chairman Purchase Committee No.-II, Govt. Medical College Jammu** should reach the Office where from tender documents have been purchased by or before **18-12-2010 upto 4:00p.m.** The sealed tender(s) should be handed over personally at the concerned office and receipt obtained or can be sent by a Registered Post. Tenders received after due date shall not be entertained. The postal delay shall not be the responsibility of the department The tender(s) will be opened by the Purchase Committee or by an officer duly authorized by the Chairman/ Member Secretary of the Purchase Committee on **21-12-2010 at 11:00 a.m.** or any subsequent and convenient date, after the tenders are received, in presence of any intending supplier or any other authorized representative who may be present in the office of the Purchase Committee No:-II, Govt. Medical College Jammu.

The Purchase Committee, H&ME Department reserves the right to accept or reject any tender or any part of the tender without assigning any reasons thereof.

A pre-tender discussion with the intending tenderers in respect to the above said tenders shall be held on 06-12-2010 in the office of the Purchase Committee No:-II, Govt. Medical College Jammu at 12.30 P.M

The intending tenderer(s) shall have to deposit an amount of Rs 50,000/-(Rupees Fifty Thousand only) and for SSI unit holders the same shall be Rs.5000/-(Rupees Five Thousand only) for aforesaid group as token Earnest Money in the shape of CDR / FDR from any Nationalized Bank or Jammu and Kashmir Bank Ltd pledged to the Member Secretary, Purchase Committee No:-II, H&ME Department, Govt. Medical College Jammu. The tender without earnest money deposit shall out rightly be rejected. **Those tenderers who have submitted their tenders for Machinery & Equipments for the year 2010-11, (Tender Notice No.05 of 2010) need not to annex fresh earnest money and their CDRs/FDRs deposited with the above said tenders shall be considered, if they wish so.**

The rates should be quoted against each item of the tender in both words and figures without cutting, tampering and transparent tape should be applied on quoted rates.

In the event of any of mentioned dates being declared as holidays/closed day for the purchase Organization, the tenders will be sold /receive/opened on the next working day at the appointed time. The tender documents are non-transferable.

Member Secretary
Purchase Committee No. 2
Govt. Medical College Jammu

No: GMC/PC-No.II/

Dated:

Copy to the:-

1. Principal Secretary to Govt. Health & Medical Education Department, Civil Secretariat, Srinagar for information please.
2. Principal, Government Medical College, Jammu/Srinagar for inf. and necessary action.
3. Principal Government Dental College, Jammu/Srinagar for information
4. Director Health Services, Jammu/Kashmir for information
5. Director family Welfare, MCH & Immunization J&K Jammu for information
6. Director, Indian System of Medicines, J&K Jammu for information
7. Controller, Drug and Food Control Organization J&K Jammu for information
8. Joint Director Information Department Jammu for publication of Tender Notice in at least two leading local papers with largest circulation. The cuttings may be sent to this office for confirmation.
9. File.

TERMS & CONDITIONS OF TENDER

MACHINERY & EQUIPMENT (Additional items) FOR THE YEAR 2010-11

1. The tenderer should be registered supplier of the Health and Medical Education Department.
2. The tender on the prescribed proforma shall be submitted in a single big size envelop containing three envelopes one for “**Technical Bid**” second for “**Financial Bid, in original (containing item wise sealed financial bids)**” and third for “**Financial Bid in Duplicate (containing item wise sealed financial bids)**” duly sealed and super-scribed as tender for “**Machinery & Equipment (Additional items)**” for the year 2010-11 addressed to the **Chairman Purchase Committee No.-II, Govt. Medical College Jammu**. The Purchase Committee shall not be held responsible for any postal delay, if the tender is sent by post. Tenders not accompanied with the following latest documents alongwith other requisite documents at the time of submission of tenders shall be rejected at the appropriate level of the competent authority.
3. **Technical bid consists of the following documents:**
 - I. Earnest money deposits in the shape of CDR/FDR for Rs.50,000/- (fifty thousand) in case of general and Rs. 5000/- (five thousand) in case of SSI units shall be accompanied with the tender document. Please note that the tender Number, its due date and complete address of the firms should also be written **on the back side of the CDR/FDR so as to ensure its safe** return to the unsuccessful or successful tenderers as the case may be.
 - II. **The authority letter of the Principals (Original manufactures) where-ever applicable.** The Authority letters should be latest and provision of fake/false authority letters will be considered an offence and such supplier shall be blacklisted for providing any supplies in the Department of Health & Medical Education Department, J&K State.
 - III. Sales Tax / VAT registration certificate.
 - IV. Latest sales tax certificates (now called VAT) valid at the time of opening of the tender issued by the sales tax authority under relevant sales tax act and the amendments made thereafter from time to time.
 - V. **Non- Blacklisting Declaration:** The tenderer shall furnish a non-black listing certificate that the firm has not been blacklisted in the past by any Govt./ Private institution. The tenderer has to give an affidavit on non-judicial stamp paper duly attested on Rs. 50/- that there is no vigilance/CBI case pending against the firm/ supplier and the firm has not been blacklisted in the past in any institution of country.
 - VI. **The item wise technical specification compliance statement with detailed catalogues of the product** should be provided by the bidder.
 - VII. The SSI unit holders shall have to enclose a certificate to the effect that the Unit is existing on the date of issue of tender from General Manager, DIC concerned.

The eligibility criteria of the bidders shall be as under:-

The eligible criteria in respect of Machinery & Equipment (Additional items) shall be a minimum **annual turnover of Rs. 15.00 crores** of the Principal/Original manufacturer on whose written authority the bidder submits tender, duly authenticated by Income Tax department/supported by balance sheet certified by the Chartered Accountant.

Financial Bid consists of following :

- VIII. Item wise **"Price-Bid"** (Financial bid) properly sealed separately alongwith duplicate, superscribed as Tender for Machinery & Equipment (Additional items) and shall **mention details of the Items quoted with item Sr. No.**
- IX. Financial bids (Price bid) of only those tenderers shall be opened who qualifies in Technical specification Compliance Statement supported by product catalogues on the basis of Technical Evaluation report submitted by the experts of respective discipline.
4. In case of any authority found forged/tampered, the firm is likely to face legal action against them under rules including forfeiture of their earnest money.
5. The tender documents should be page marked and bearing signature with seal on each and every page.
6. **The rate quoted must be F.O.R. "Stores of the Govt. Medical College/Dental College/Health Services/State Health Society/ISM/Hospitals and any other Govt. institution dealing with patient care in Jammu/Kashmir Division".**
7. **The tenderer supplying indigenous goods or already imported goods shall quote in Indian Currency only.**
8. **For imported goods, prices shall be quoted in any freely convertible currency say Dollar, Euro, GBP or Yen. As regard price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed/undertaken in India. Commission for Agent, if any and if payable shall be indicated in the space provided for the price schedule and will be payable in Indian Rupees only. The prices for comparison (only) shall be taken as the prevailing rates on the day of opening of tenders.**
9. **Tender where prices are quoted in any other way shall be treated as non- responsive and rejected.**
10. **The rates quoted should be inclusive of all taxes, duties, other charges like packing, forwarding etc. including entry tax, if any. No separate Tax/ Levies will be allowed. The rates should be quoted in accordance with the enclosed Price Schedule showing all components of charges.**
11. **Rates Quoted should be typed and free from fluiding/cutting and overwriting. No hand written quotation will be accepted. All pages of the documents submitted should be numbered & total number of pages indicated in the index. Transparent tape should be applied on each quoted rates.**
12. **Details of documents enclosed with the tender forms should be mentioned in Proper Index serial wise duly flagged on the front page of your tender.**
13. The document submitted by the firm with the tender will be opened in public in the presence of tenderers/representatives of the firms and the officers opening the tender will sign the tender documents.
14. The tenderer/ authorized representatives should point out to the Chairman/Member Secretary, Purchase Committee No.-II, GMC, Jammu, embitterment, if any, at the time of opening tenders or; thereafter the tenderer/ authorized representative will have no legal right to confer or to represent on one ground or the other.
15. All the documents attached with the tender should be signed and sealed by the bidder it self.
16. No conditional tender shall be accepted. The committee reserves right to accept or reject any tender/ quotation without assigning any reasons thereof.
17. **The approved firm shall be bound to deliver ordered equipments within 8 weeks or a period mutually agreed up by the authorities.**

18. If the delivery is not effected on due date, the Chairman/Member Secretary, PURCHASE COMMITTEE/Head of the Departments of the respective institutions will have the right to impose penalty of the total cost of the supply order as under
 - i) First extension for the month on part thereof : @ 2%
 - ii) Second extension for an additional month : @ 5%thereafter no extension shall be granted and the item shall be purchased on the risk and cost of the supplier.
19. The successful tenderer shall be responsible for execution of the supplies strictly in accordance with the contract in full and shall not in any case assign or sublet any part thereof. Deviation, if any can lead to forfeiture of Earnest money with holding of other deposits in Health and Medical Education Department as a whole or even black listing of the suppliers/ firms/ dealers/original manufacture.
20. If in case the tenderer fails to supply the material within the delivery period, the order will be liable to be treated cancelled and earnest money will be forfeited.
21. Rates should be quoted for the superior quality material only with Nomenclature/catalogue with submission of samples (wherever required) duly marked with seal & signature of the firms.
22. In case any Tenderer, if charges higher rates for any item (items) more than the MRP, the action like forfeitures of earnest money/security money/ performance bank guarantee and removal of name from the list of the supplier shall be taken against the firm.
23. The Successful tenderer are bound to supply the material on the rates once quoted by them and once approved by the Purchase Committee. Any hike in tax on later stage will not be paid if not levied by the J&K Govt. However in the event of any revision in the existing rates of duties or introduction of any statutory duty and taxes imposed by the Government, the same will be paid extra on production of satisfactory documentary proof.
24. The approved supplier shall carefully examine the conditions, specifications, size, make and Catalogue/drawings etc. of the goods to be supplied wherever applicable. In case of any doubts, he shall before signing the contract refer to the Head of the institution/Officer-in-charge and get clarifications.
25. If in any case it is noticed that any manufacturer, firm, authorized dealer, approved supplier or any other agency is supplying item of similar specification lower cost than that of tenderer and approved as per this tender notice, the firm should have to make the supplies at such lower rates and excess amount if any paid for supplies already made shall be recovered in lump sum.
26. If at any stage during the tenure of the tender the successful tenderer reduces the sales price lower than the quoted rates under agreement will forthwith notify such reductions of the sale price to the undersigned immediately.
27. All terms and conditions of tender notice shall conform part of the supply order/agreement.
28. The successful tenderer shall have to abide by the standard terms and conditions as laid down in the J&K book of financial rules/ codes and the conditions as per the contract.
29. Five years Warranty for each item equipment from the date of installation and its successful commissioning at required site. The details of AMC and CMC after the warranty period shall be mentioned separately. Any condition mentioned against each item in the list of items in tender document shall also be the part of the terms & conditions.
30. The rates contract shall remain valid for a period of one year from the date of its issuance which can be extended for a period of 90 days or till such time the new rate contract is issued, whichever is earlier.
31. The successful tenderer should ensure immediate supplies if supply order is placed on to them and they are bound to supply material strictly as per the conditions approved by the Purchase Committee. If at any stage it is found that material supplied by the firms is not according to, as approved by the Purchase Committee, the ACTION AS DEEMED FIT WILL BE TAKEN AGAINST THE FIRM.
32. The experts may call for the sample/part(s) of the equipment for physical demonstration of the product. The tenderer(s) shall have to arrange the equipment as per the given time by the experts and for that no extra cost shall be paid by the department.

33. The successful tenderer shall have to execute an agreement in the prescribed form with the purchase officer concerned.
34. The Purchase Committee shall also be competent to alter/ modify the specifications of any item/ items for purchasing in the best interest of the Department during the process of finalization of a contract viz. Placement of supplier order.
35. All the stores supplied shall be of the best quality, specification, trade mark and in accordance with the approved standard, catalogue, samples if provided. In case of any articles supplied not being approved, shall be liable to be rejected or replaced and any expenses as a result of rejection or replacement of supplies, shall be entirely at the cost of tenderer.
36. The tenderer shall be responsible for the proper packing, so as to avoid damage under normal conditions of transport by rail, road or air and delivery of material in good condition to the consignee at the destination. In the event of any loss, damage, breakage, leakage or any shortage, the tenderer shall be liable to make good such loss and shortage found at the checking/ inspection/ verification of the materials by the consignee, no extra cost on such account shall be admissible.
37. In case of any dispute/ difference or doubts between the purchasing officer and the approved suppliers arises, the orders of the Chairman, Purchase Committee shall be final.
38. The supplies shall be accepted only in proper packing where-ever required in stores. The supplies meant for, in the Health & Medical Education Department, Jammu Division and be embossed as **"J&K Hospital Supplies and Not For Sale"**, wherever required.
39. **Performance Security:** The approved supplier shall have to deposit 10% of the value of the supply order with the concerned Purchasing officer, duly pledged, in shape of Bank Guarantee valid two months beyond the warranty period
40. **Payment:-** 100% payment shall be made to the supplier after the receipt/ verification of materials, installation and successful commissioning of the equipment at the required site strictly as per supply order after obtaining 10% bank guaranty, through endorsed bills/ bank drafts etc. and the bank charges on account of remittance shall be made good from the payee.
41. No advance payment shall be authorized unless required under specific terms & conditions. Payment will be made only after the supply is made in the quantity ordered.
42. Either of the sales tax (only one tax) shall be payable i.e. Central or State.
43. Any other condition that is not indicated here can be incorporated in the supply order or agreement before execution of a contract if need be.
44. All the ingredients of the Checklist and General instructions incorporated shall be treated as a part of conditions of the contract.
45. Legal proceedings that may arise at any time shall be subject to the jurisdiction of J&K Courts at Jammu/Srinagar only.

Signature with Seal
Of the tenderer
In acceptance

CHECK LIST FOR THE TENDERERS
TO BE ENCLOSED WITH TECHNICAL BID
UNDER GROUP MACHINERY & EQUIPMENT (Additional FOR THE YEAR 2010-11)

S.NO	DOCUMENTS	ANNEXURE NO.	PAGE NO.
1	Earnest Money in the shape of CDR/FDR worth Rs.50,000/- (fifty thousand) in general Rs. 5000/- (five thousand) for SSI unit.		
2.	<ul style="list-style-type: none"> ➤ Index Page showing items quoted, their manufacturers etc. ➤ Item – wise Technical Specification Compliance Statement supported by the catalogues. ➤ Item –wise SEALED Price bid 		
3.	The eligible criteria in respect of Machinery & Equipment (Additional items) shall be a minimum annual turnover of Rs. 15.00 crores of the Principal/Original manufacturer on whose written authority the bidder submits tender, duly authenticated by Income Tax department/supported by balance sheet certified by the Chartered Accountant.		
4.	Latest ISO Certificate (if any)		
5.	Undertaking/ Letter of Acceptance		
6.	Non Blacklisting Declaration		
7.	Copy of manufacturing license (if any)		
8.	Valid sales tax/VAT clearance certificate		
9.	Copy of PAN Card		
10.	Manufacturer's Authorization (The letter of Authorization should be on the letter head of the manufacturing firm and should be sealed & signed by a person competent).		
11.	In case of SSI unit, enclose Permanent Registration Certificate issued by Industries Department supported with a certificate that the unit is in existence from General Manger, DIC concerned.		
	Total No. of pages		

- The tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.
- It is the responsibility of tenderer to go through the Tender Document to ensure furnishing all required documents in addition to above, if any.
- The tenderer should furnish all the relevant information mentioned in the checklist.
- All pages of the tenders should be page numbered and indexed.
- Wherever necessary and applicable, the tenderers shall enclose certifies copy as documentary proof/evidence to substantiate the corresponding statement.
- In case a tenderer furnishes a wrong or evasive statement, his tender will be liable to be ignored/rejected

With Seal & Signature

(Full name, designation & address of the Tender)

**UNDERTAKING/ LETTER OF ACCEPTANCE IN RESPECT OF TERMS & CONDITIONS UNDER GROUP
MACHINERY & EQUIPMENT FOR THE YEAR 2010-11**

Sir,

1. I / we do agree for all clauses, terms and conditions of the tender documents.
2. I / we agree to abide the contract for a period of **one year** to provide the services from the date of award of the contract and ready to work on the same rates, if extended for a further period of three months or till new contract is finalized.
3. I / we declare that our financial position is sound and we are competent to execute the supplies as & when allotted.
4. I/ we declare that we will not ask/ expect any financial assistance from the Govt. of Jammu & Kashmir State.

In acceptance
(Signature and seal of the tenderer)

**INDEX OF ITEMS INCLUDED IN MACHINERY & EQUIPMENT(ADDITIONAL ITEMS)
FOR THE YEAR 2010-11**

1.	Quaternary High Performance Liquid Chromatography (Hplc) System.
2.	Single Puncture Laparoscope complete set (suitable for Female Sterilization)
3.	Tissue Sealing System
4.	Blood Analysis Testing Analyzer (Portable)
5.	OT Ceiling Light Double Combination With Led Technology
6.	Autoclave
7.	Mobile OT Led Light
8.	Three Channel Electrocardiograph with Display and interpretation
9.	Slit Lamps
10.	Infant Radiant Warmer
11.	Ultra Violet Air Sterilizer
12.	Transport Incubator
13.	Infant incubator

DETAILED SPECIFICATIONS

1.	<p>Quaternary High Performance Liquid Chromatography (HPLC) System.</p> <p>A) Pump (Quaternary).</p> <p>Flow rate range- 0.001 to 10ml per minute.</p> <p>Flow rate accuracy: +- 1 % to + 2µl/min whichever is greater.</p> <p>Flow rate precision : + 0.075% or better.</p> <p>No. of solvents upto 4 solvents.</p> <p>Pressure range: 0 to 60 MPa (600 bar, 8700 Psi) upto 5ml/min 0-20 MPa (0-20Mpa (0-200 bar, 0-2950 Psi) upto 10ml/min.</p> <p>Gradient delay volume: 600-900µl (includes mixer).</p> <p>B) Degasser: (Vacuum type)</p> <p>Degasser should be of 5 channel membrane type to minimize the- maintenance requisites and degassing volume preferably 4ml per line: containing mobile phase.</p> <p>C) Auto Sampler:</p> <p>Injection range 0.1-100µl in 0.1ml increments.</p> <p>Replicate injections 1-99 from one vial. ,</p> <p>Precision typically < 0.25% RSD of peak areas from <5µL to 100µL .</p> <p>Typically < 1 % RSD of peak areas from 1 µL to 5µl.</p> <p>Minimum sample volume 1µL from 5µl sample In 100µl microvial.</p> <p>Carryover Typically < 0.1 % < 0.05% with external needle cleaning.</p> <p>Sample capacity 100x2ml vials in 1 tray.</p> <p>Injection cycle time 50s for draw speed 200µl/min, ejection speed ... 200µl/min, Injection volume 5µL.</p> <p>Safety features leak detection and safe leak handling, low voltages in maintenance areas error, detection and display. GLP feature early maintenance feedback (EMF) electronic records of maintenance and errors.</p> <p>Pressure operating range 0.60MPa (0-600 bar, 0.8850Psi)</p> <p>D) Column oven:</p> <p>Column compartment</p> <p style="margin-left: 20px;">a) Temperature range.. 10 C below ambient to 80 C</p> <p style="margin-left: 20px;">b) Temperature Accuracy +/-0.8 C with calibration+ 0.5 C</p> <p style="margin-left: 20px;">c) Temperature Stability + 0.15 C.</p> <p style="margin-left: 20px;">d) Heat up/cool down time C. 5min from ambient-to 40C: 10 min . .from 40C to 20</p> <p style="margin-left: 20px;">e) Column capacity :Three 30 Cm columns</p> <p>(E) Photo Diode Array Detector</p> <p style="margin-left: 20px;">a) Wavelength range: 190-950nm or more,</p> <p style="margin-left: 20px;">b) Wavelength accuracy.: ±1nm, self calibration.</p> <p style="margin-left: 20px;">c) Slit width: Programmable 1,2,4,8 and 16nm.</p> <p style="margin-left: 20px;">d) Short term Noise ±- 0.7x 10⁻⁵AU at 254 nm.</p> <p style="margin-left: 20px;">e) Drift < 0.9x 10⁻³ Au/h at 254nm</p> <p style="margin-left: 20px;">f) Linearity > 2.OAU at 265nm.</p> <p style="margin-left: 20px;">g) Detector types: 1024 elements Diode Array.</p> <p style="margin-left: 20px;">h) Data rate upto 50HZ.</p> <p style="margin-left: 20px;">i) Light source: Deuterium lamp and tungsten lamp.</p> <p style="margin-left: 20px;">j) Diode width <1nm.</p> <p style="margin-left: 20px;">k) Standard flow cell of 10mm.</p>
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- l) Time programmable: Wavelength, Polarity, Peak width lamp bandwidth, Autobalance, wavelength range threshold spectra storage mode.
- m) GLP feature : RFID for electronics records of flow cell and UV lamp condition & early maintenance feedback (EMF) for continuous tracking of Instrument usage in terms of lamp burn time with user settable limits and Feedback messages and data recovery card, Ratio Chromatogram for peak Determination
- n) No. of diode elements : 512

F) Column c-18 and c-8 column.

G) Software:

Window based data processing system, should be capable of fully controlling of HPLC system. It should be for full method documentation, data retrieval and peak integration etc. The software should be compatible with windows 2000/XP, capable of transferring data 10 excel/word with self validation feature. The software should be capable to control the Multiple HPLC system suitable online UPS for uninterrupted running for 30min in case of power failure

H) Computer Specification.

Window Computer core 2 duo 2.60GHz, 2GB (2x16GB) DDR2 800MHz RAM,320GB SATA Hard disk, 16x DVD +/-RW Writer,18.5" Widescreen LCD Monitor etc. and Black & Laser Jet Printer.

2.

Single Puncture Laparoscope

1	Telescope Telescope 0° with parallel/ straight eye piece, 10mm to 12mm diameter. Fibre optic light Transmission incorporated, should be compatible with commonly available light cables (necessary adaptors should be provided). Can be sterilized by autoclaving cidex solutions and formaline chamber. Should have 6 mm instrument channel / built in ring applicator working length of 270-275mm	01
2	Trocar & Cannula Cannula size +1 mm more than the telescope diameter, should have an automatic valve and stopcock for insufflation. Trocar should have pyramidal tip. The Length of trocar should be 160-170mm and the length of cannula should be 100-110 mm	02
3	Ring Applicator Ring Applicator for use with parallel / straight eye piece Telescope compatible with the above telescope, capable of loading two silastic rings	02
4	Cone Suitable cones for loading rings to the above applicator	05
5	Slides / guide Suitable slides / guide for loading rings to the above applicator	10
6	Veress Needle Veress Needle with spring loaded blunt stylet with luer lock and length of 10 cm	03
7	Veress Needle Veress Needle with spring loaded blunt stylet with luer lock and length of 15 cm	03
8	Essential Spare a) Spare Washers Spare washers for trocar and cannula and automatic valve b) Kits for cleaing (i) Trocars Brush (ii) Cannula Brush (iii) cleaning oil 100 ml c) Manuals Operation manual Service manual Spare parts list (with part nos.) d) Environment	12 02 02 02 01 01 01

CO2 INSUFFLATOR AND COLD LIGHT SOURCE FOR S.P. LAPAROSCOPE		
01	Electronic Co2 insufflator with pin index connection. Should have an adjustable flow rate of 0 to 10 ltrs per minute and a pressure range adjustable between 0-30mm Hg. Pressure and flow rate have display on the Front panel. Provided with silicon autoclavable tubing with luer attachment. Instrument should work on a supply of 220-240V with a frequency of 50Hz single phase Fit for purpose	
2	<u>High Pressure hose</u> Suitable to connect insufflators with pin indexed Co ₂ cylinder	01
3	<u>Wrench Kit</u> Suitable for connecting the insufflator to CO ₂ cylinder	02
4	<u>Carbon Dioxide Bottle</u> 20 ltr capacity carbon dioxide bottle with pin index connection	02
5	<u>Cold Light Source</u> Cold Light Source with dual control having 2 halogen lamps of 250 watts ratings each; operable on a 220-240 V and 50 Hz supply Back up light source compatible with SP and DP Laparoscope is also to be provided Fit for purpose	01
6	<u>Fibre optic light cable</u> 4.5-10.0 mm in diameter, 180-200 cm in length compatible with the cold light source and the commonly available telescopes (necessary adaptors to be provided)	02
7	<u>UPS</u> UPS –1.0 KVA with one hour backup time	01
8	<u>Essential Parts</u>	
	a) Mains Cord Compatible with insufflator and cold light source	02
	b) Halogen Spare Lamps Halogen Spare Lamps of 250 watts	12
	c) Manual Operating manual (for insufflator and source) Service manual (for insufflator and source) Spare parts list (with part nos.) (for insufflator & source)	02 02 02
9	<u>Formaline chamber (for sterilization of Laparoscopes)</u> of Appropriate size for sterilizing the Laparoscope	01
10	<u>Tray for sterilization of laparoscopy</u> of Appropriate size for sterilizing the Laparoscope	02
3.	<u>Specifications for Tissue sealing System</u> <ol style="list-style-type: none"> 1. The system should be microprocessor controlled electrosurgical radiofrequency generator. 2. Should have simultaneous seal and transect vessels up to and including 7mm, vessel size. 3. It Should be FDA and CE approved. 4. It should have reusable electrodes 5. It should be used for both open and endo surgery 6. It should have minimal lateral thermal spread to avoid lateral damage. 7. It should have hand controlled device. The power output of the system should be ranging from 70W to 150W	
4.	<u>Specifications for Blood Analysis Testing Analyzer (Portable)</u> <ol style="list-style-type: none"> 1. Small portable system capable of performing blood gases, electrolytes and metabolites tests. 2. Operating on Rechargeable battery 3. Test time of less than one minute after sample introduction. 4. System should have an embedded bar code reader 5. System should have automatic THERMAL CONTROL upto 37.0° 6. System should be BLUETOOTH & USB port capable. System should be provided along with a dedicated Thermal Printer.	

5.	<p><u>OT Ceiling Light Double Combination With LED Technology</u></p> <p><u>Should have the following Key Features:</u> One major and one Satellite Dome Single Colour White LED,s Reflector based LED Technology Arrangement of LED in such a way that Shadow Free and Deep Cavity Illumination is achieved Efficient heat management system through heat sink and low power consp. ESG safety glass for simple and fast disinfection process Electronic controls of function wall control 360° rotation of domes Option of HD-SD camera system prep. For 360 deg rotation though slip rings Video Streaming integration into the local network</p> <table border="1"> <thead> <tr> <th><u>Technical Data:</u></th> <th><u>Major</u></th> <th><u>Satellite</u></th> </tr> </thead> <tbody> <tr> <td>Light Head Diameter (mm)</td> <td>690</td> <td>590</td> </tr> <tr> <td>Intensity Range (Lux)</td> <td>15-160K</td> <td>45-130K</td> </tr> <tr> <td>Life time of light source (h)</td> <td>>30,000</td> <td>>30,000</td> </tr> <tr> <td>Light Field Diameter (mm)</td> <td>18-28</td> <td>17-22</td> </tr> <tr> <td>Depth of Field L1+L2 (mm)</td> <td>900</td> <td>1000</td> </tr> <tr> <td>CRI (Ra)</td> <td>95</td> <td>95</td> </tr> <tr> <td>R9</td> <td>95</td> <td>95</td> </tr> <tr> <td>Colour Temp(K)</td> <td>4500</td> <td>4500</td> </tr> <tr> <td>Light Sources LED:</td> <td>36x3=108</td> <td>24x3=72</td> </tr> <tr> <td>Light Head Power Consumption</td> <td>60W at 24V DC</td> <td>65W at 24V DC</td> </tr> <tr> <td>Radiant Energy</td> <td>3,4mW/m2lx</td> <td>3,4mW/m2lx</td> </tr> <tr> <td>Temp increase at surgeons head</td> <td>< 2 deg</td> <td>< 2 deg</td> </tr> <tr> <td>Temp increase at Operational Area</td> <td>Approx. 10deg</td> <td>Approx. 10deg</td> </tr> <tr> <td>Certification</td> <td>UL/CE</td> <td>UL/CE</td> </tr> <tr> <td>Working Area from / to (mm)</td> <td>600-1500</td> <td>550-1550</td> </tr> <tr> <td>Adjustment of Spring Arm(mm)</td> <td>1178</td> <td>1178</td> </tr> <tr> <td>Laminar Flow Index</td> <td>27</td> <td>18</td> </tr> <tr> <td>Laminar Flow Class</td> <td>4.1</td> <td>3.7</td> </tr> <tr> <td>Residual Illumination with 1 shadow-Castor (%)</td> <td>70</td> <td>50</td> </tr> <tr> <td>Residual Illumination with 2 shadow-Castor (%)</td> <td>55</td> <td>45</td> </tr> <tr> <td>Residual Illumination with 1 tube (%)</td> <td>100</td> <td>100</td> </tr> <tr> <td>Residual Illumination with 1 tube and 1 shadow castor(%)</td> <td>61</td> <td>44</td> </tr> <tr> <td>Residual Illumination with 1 tube and 2 shadow castor(%)</td> <td>49</td> <td>46</td> </tr> <tr> <td>Power Supply-Primary Voltage(V)</td> <td>90-240</td> <td>90-240</td> </tr> </tbody> </table> <p>Camera HD-SD Option Centrally Mounted</p>	<u>Technical Data:</u>	<u>Major</u>	<u>Satellite</u>	Light Head Diameter (mm)	690	590	Intensity Range (Lux)	15-160K	45-130K	Life time of light source (h)	>30,000	>30,000	Light Field Diameter (mm)	18-28	17-22	Depth of Field L1+L2 (mm)	900	1000	CRI (Ra)	95	95	R9	95	95	Colour Temp(K)	4500	4500	Light Sources LED:	36x3=108	24x3=72	Light Head Power Consumption	60W at 24V DC	65W at 24V DC	Radiant Energy	3,4mW/m2lx	3,4mW/m2lx	Temp increase at surgeons head	< 2 deg	< 2 deg	Temp increase at Operational Area	Approx. 10deg	Approx. 10deg	Certification	UL/CE	UL/CE	Working Area from / to (mm)	600-1500	550-1550	Adjustment of Spring Arm(mm)	1178	1178	Laminar Flow Index	27	18	Laminar Flow Class	4.1	3.7	Residual Illumination with 1 shadow-Castor (%)	70	50	Residual Illumination with 2 shadow-Castor (%)	55	45	Residual Illumination with 1 tube (%)	100	100	Residual Illumination with 1 tube and 1 shadow castor(%)	61	44	Residual Illumination with 1 tube and 2 shadow castor(%)	49	46	Power Supply-Primary Voltage(V)	90-240	90-240
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8.	<p>Three Channel Electrocardiograph with Display and interpretation</p> <table border="1"> <tr> <td>E C G Machine</td> <td>Three Channel ECG Machine having automatic, manual and pre-programmed recording modes of operation.</td> </tr> <tr> <td>Leads</td> <td>12 Leads simultaneous ecquisition</td> </tr> <tr> <td>Mode of operation</td> <td>Auto and Manual</td> </tr> <tr> <td>Display Format</td> <td>LCD Display of Three Channel ECG</td> </tr> <tr> <td>Print out format</td> <td>Automode –Three Channel Manual Mode –Three Channel Three different lead formats selectable by user</td> </tr> <tr> <td>Sweep Speed</td> <td>12.5, 25,50 mm /sec.</td> </tr> </table>	E C G Machine	Three Channel ECG Machine having automatic, manual and pre-programmed recording modes of operation.	Leads	12 Leads simultaneous ecquisition	Mode of operation	Auto and Manual	Display Format	LCD Display of Three Channel ECG	Print out format	Automode –Three Channel Manual Mode –Three Channel Three different lead formats selectable by user	Sweep Speed	12.5, 25,50 mm /sec.																																																															
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Sensitivity	5,10,20 mm/mv
CMRR	> 100 dB
Input Impedence	> 100M Ohms
Frequency response	0.05-150Hz.
Time constants	>3.2sec
A/D conversion	12 bit
Power supply	230V / 50Hz Ac
Battery	Lead Acid Battery 12V/1.3Ah
Filters	Muscle Tremors, 35, 20, 120 Hz digital power line interference 50Hz
Along with Standard Accessories, carrying bag and Accessory box	

9.	Slit Lamp	
Type	Galilean Magnification Charger with covering binocular tubes	
Eye piece	12.5X	
magnification selection	05 steps by drum rotation	
Magnification Radio (Field of view)	6x (35.1mm) 10x (22.5mm) 16X (14.1mm) 25X (8.8mm) 40X (5x6mm)	
Slit width	Continuous from 14mm to 0mm (at 14mm, Slit becomes circle)	
Slit Length	Continuous from 14mm to 0mm (at 14mm, Slit becomes circle)	
Slit Angle	0-180° with Horizontal scanning capacity	
Filter	Blue ,Red –Free, Amber UV cut (Normal use), IR Cut (Normal use) ND (13% transmission), Heat insulation Exciter / barrier (Factory option)	
Illumination Lamp	12V, 30W Halogen Lamp	
Input (Primary)	100-120V, 220-240V AC	
Weight W/ Table		
Provision for application Tonometer		

10.	<p>INFANT RADIANT WARMER</p> <p>Should have LED display for skin and set temperature. Should have facility of conversion of temperature °C to °F</p> <p>Should have programmable system for alarms</p> <p>Should work in two modes i.e. Servo and manual</p> <p>Should have single probe control for ease in use.</p>
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	<p>Should be CE Certified</p> <p>Should have attached baby bed and trays for storage.</p> <p>Should be IEC 60601-1 complaint.</p>
11.	<p>ULTRA VIOLET AIR STERILIZER</p> <p>Should be moulded in ABS plastic</p> <p>Should have negative ion generator.</p> <p>Should have programmable cyclic timer for on/off function</p> <p>Should be CE recommended</p>
12.	<p>TRANSPORT INCUBATOR</p> <p>Should have collapsible stainless steel trolley</p> <p>Body should be made up of plastic / fibre to avoid electric shock</p> <p>Should be CE certified</p> <p>Should have integrated rechargeable power backup</p>
13.	<p>INFANT INCUBATOR</p> <p>Should be CE Certified</p> <p>Should be able to display both skin and air temperature</p> <p>Should be able to work in Air / Skin/Manual Modes</p> <p>Should have LCD display for more specific information</p> <p>Should have front loading water reservoir</p> <p>Should have digital LED display of humidity on the main control panel</p> <p>Should have temperature conversion facility from °C to °F</p>