



ESIC HOSPITAL & OCCUPATIONAL DISEASE CENTRE (E.Z.),

(A Statutory Body under the Ministry of Labour, Government of India)

DIAMOND HARBOUR ROAD, JOKA, KOLKATA, 700 104

Fax: 033 2467 2795, Phone: 033 2467 1764 / 6280 / 1322, Web: www.esic.nic.in

Tender No.412.U/16/30/3/Proposal/09-10 (Medical College)

Dated 29.10.2009

Sub: Open Tender Enquiry – (Two Bid System) 2009-10: For supply of Equipments and Instruments for Anaesthesia, ICU, CSSD, Orthopaedics and Physiotherapy – Medical College.

(NOTE: The envelope containing the tender as well as subsequent communications should be addressed and delivered to 'The Medical Superintendent', ESIC Hospital & O.D.C. (E.Z), Diamond Harbour Road, P.O.: Joka, Kolkata, 700 104, West Bengal. All communications must be addressed to the officer named above by title only and not by name.)

To:

Sir(s),

Sealed tenders are invited (under Two Bid System - "TECHNICAL BID" & "PRICE BID") by post/per bearer from bonafide manufacturers / authorised dealers for supply of "**Equipments and Instruments for Anaesthesia, ICU, CSSD, Orthopaedics and Physiotherapy – Medical College -2009-10**" as per categories / specifications and/or quantities detailed in the **Schedules / Specifications** (Annexure – IV) attached.

The "**Tender Documents**" comprising the *General Terms and Conditions of Contract* (**Annexure I**) and the *Special Terms and Conditions of Contract* (**Annexure II**) which will govern any contract made, the *Tender Application Form* (**Annexure III**) and the *Schedule of contract / specifications of items* (**Annexure-IV**) are enclosed herewith. If you are in a position to quote for the contract in accordance with the requirements stated in the attached schedule as per the terms and conditions stated, please submit your quotation to this office.

The tender document may be obtained from the office of the Medical Superintendent in person by the bonafide applicant or his authorised representative by applying in their letter head **at a cost of Rs.100.00 (Rupees One Hundred Only)**. The "tender documents" can also be downloaded from the web site (www.esic.nic.in) and in such case the same may be signed and submitted as per the procedures mentioned hereinafter along with the fee(s) for the "tender documents" @ Rs 100.00 (Rupees One Hundred Only) (To be submitted along with the Technical Bid. It should not be enclosed in the envelope containing the Price Bid). All the payment may be made by **Demand Draft**; drawn in favour of **ESI Fund A/c No. 1, ESIC Hospital & ODC (E.Z), payable at Kolkata; Cheques will not be accepted.**

Tenderers are requested that, before quoting their rates or sending tender, the tender forms may please be read out thoroughly (line by line) so as to have a clear knowledge of the requirement contained therein, otherwise purchaser will not be held responsible for any error / oversight of his own and the penalties shall be levied for not complying with the requirements stated herein or supply of the required item/services.

The form is a Standard Form of Tender. Certain clause / clauses may not be applicable in some cases. So, Tenderers are requested to ignore such clause / clauses, which are not applicable in the instant case.

The Tender forms containing the Terms and Conditions (**Annexure – I & II**), the Tender Application Form (**Annexure III**) and the Schedule of contract / specifications of items (**Annexure-IV**) **should be returned in original along with the technical bid document, intact, after filling up the same and duly signing in full with stamp, on each page**, failing which the tender shall be liable for rejection.

In the event of the space on the Schedule of contract / specifications of items/proforma being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bearing the Tender Number and be duly signed and stamped by the tenderer. In such cases, reference to the additional pages must be made in the Tender Form. If any modification of the schedule is considered necessary, you should communicate the same by means of separate letter sent along with the Tender.

PARTICULARS

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| Cost of each Tender Document | Rs. 100.00 (Rupees Hundred Only) |
| Period for supply of Blank Tender Forms and related documents at the Hospital on all Working Days (Except Saturdays, Sundays and Holidays) | 12.11.2009 to 03.12.2009 from 10.30 am to 3.00 pm |
| Last Date & Time of submission of completed Tender Document in the Tender Box kept in the Office of ESIC Hospital. | 04.12.2009, upto 2.00 pm |
| Date & Time of Opening of Technical Bid | 04.12.2009, 2.30 pm |
| Bid Security / Earnest Money to be deposited | Amount of EMD to be deposited is, as mentioned against each of the equipment / instrument /item in annexure IV of the tender document. While quoting for more than one item, the earnest money mentioned against each quoted item are to be taken into consideration and added up while submitting the earnest money / bid security. |
| Performance security / Security Deposit Money to be deposited | 10 % of the Bill Value of each of individual equipment to be purchased from the tenderer after selection. |

Medical Superintendent, ESIC Hospital & ODC (E.Z), Joka, does not pledge himself to accept the lowest or any tender and reserves the right of accepting or rejecting the whole or any part of the tender without assigning any reason thereof. Canvassing in any form by the tenderer or his representative with any of the officials of ESIC Hospital shall render the tender liable to be rejected.

Acceptance by the purchaser shall be communicated in due course. You are requested that the instructions contained in the said communication should be acted upon immediately as asked for.

Enclosures:

1. Annexure – I (General Tender Terms & Conditions).
2. Annexure – II (Special Tender Terms & Conditions).
3. Annexure – III (Tender Application Form).
4. Annexure – IV (Schedule / specifications of items/equipment).

Yours sincerely,

MEDICAL SUPERINTENDENT

Copy for information and necessary action to:

1. D.D. (Finance), ESIC Hospital, Joka, Kolkata
2. Jt. Director / Dealing Assistant (Tender), ESIC Hospital, Joka, Kolkata.

MEDICAL SUPERINTENDENT

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| GENERAL TERMS AND CONDITIONS FOR TENDER / BID |
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1. PREPARATION OF TENDER:

- a. The original Tender form containing the Terms and Conditions (General and Special) and the Schedule should be returned in original after filling up the form and duly signing in full on each page with stamp, whether you are quoting for any item or not, failing which the tender is liable to be rejected.
- b. If any item in the schedule is not being tendered for, the corresponding space against the item should be defaced by writing 'not quoting'.
- c. In the event of the space on the schedule form being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bear the Tender Number and be duly signed and stamped by you. In such cases, reference to the additional pages must be made in the Tender Form.
- d. The Tenderer shall, wherever call upon to do so, give full information with reference to the services in hand and shall also permit the Medical Superintendent or any other officer nominated by him to inspect the premises of the tenderer at all reasonable times and shall give full assistance and information as may be required by him in connection with the contract.

2. SIGNING OF TENDER:

- a) The tender is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the tender are not duly & fully filled in. Particular attention may be given to the dates of delivery, places of delivery and also to the particulars referred to in the conditions of contract so as to comply with them.
- b) Individuals signing tender or other documents connected with the contract must specify:
 - i) Whether signing as a 'Sole Proprietor' of the firm or his Attorney?
 - ii) Whether signing as a 'Registered Active Partner' of the firm or his Attorney?
 - iii) Whether signing for the firm 'Per Procreation'?

In the case of companies and firms registered under the Indian Partnership Act, the capacity in which signing e.g. Secretary, Manager, and Partner etc. or their attorney and produce copy of documents, empowering him to do so, if called upon to do so.

NOTE: In case of unregistered firms, all the members or all Attorneys duly authorised by all of them or the Manager of the firm should sign the tender and subsequent documents.

3. PROCEDURE FOR SUBMISSION OF TENDERS / BIDS:**I. The tender should be submitted in 'TWO BID' SYSTEM:-****i. TECHNICAL BIDS:**

- a. **TECHNICAL BIDS** in one separate envelope, sealed, super scribed with the wordings "**TECHNICAL BID**".
- b. The original copy of tender (Annexure – I to annexure - IV), duly completed and signed on each page, should be submitted/returned back, enclosed along with the "**TECHNICAL BID**".
- c. The "Technical Bid" shall contain Earnest Money, the Cost of the Tender Document (if downloaded from the web), both in the form of demand drafts as prescribed hereinbefore, and all the technical details & documents along with commercial terms and conditions in support of the quoted equipment.
- d. The Earnest Money Deposit (EMD) should be submitted in separate envelope super scribed with the wordings "**EMD**".
- e. Prices / Costs of the items *should not be* indicated anywhere in the Technical Bid. This should be followed meticulously failing which the tender is liable to be cancelled.

ii. PRICE (FINANCE) BID

- a. **PRICE (FINANCE) BID** for each ITEM is to be submitted in **SEPARATE** sealed envelopes, super scribed with the wordings "**PRICE (FINANCIAL) BID**" and the "**NAME OF THE ITEM**". All such sealed envelopes of Price Bids for individual items are to be kept in a large sealed envelope, again superscribed with the wordings "**PRICE (FINANCIAL) BID**". This should be followed meticulously failing which the tender is liable to be cancelled.
 - b. The 'Price/Financial Bid' will contain item-wise price / cost for the items mentioned / quoted in the technical bid.
- II. Both the Technical Bid envelope and the Price (Financial) Bid envelope, prepared as above, are to be kept in a larger single envelope super-scribed with "**TENDER (TWO BID SYSTEM) FOR SUPPLY OF EQUIPMENTS AND INSTRUMENTS FOR ANAESTHESIA, ICU, CSSD, ORTHOPAEDICS AND PHYSIOTHERAPY – MEDICAL COLLEGE -2009-10**" so as to give a double cover protection.
 - III. The outer cover should also be sealed and addressed to the Medical Superintendent in the address mentioned hereinbefore.
 - IV. Tenders submitted without following the 'Two Bid' System procedure will be rejected.

4. LATEST HOUR FOR RECEIPT OF THE TENDER:

Your tender must reach this office not later than the date and time notified in the Tender Notice stated in the TENDER DOCUMENT. Any tender received after that shall be rejected. In the event of the stipulated date of opening of the tender being declared a closed holiday for Govt. offices, the date of opening of the tender(s) will be the next working day. Tender sent by hand delivery, should be delivered at this office not later than the due date and time stipulated in the schedule of tender.

5. THIS TENDER DOCUMENT IS NON-TRANSFERABLE**6. PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN AND PERIOD OF VALIDITY:**

- i) All tenders should remain open for acceptance for a **period of twelve months** from the date of **opening of the tender**.
- ii) The contract / tender, if awarded, shall be valid **initially for one year from the date of award of Contract** subject to continuous satisfactory performance and on failure on this aspect by the contractor, the Competent Authority will reserve the right to terminate the contract. The period of the contract can be extended for further period at the discretion of the Competent Authority, to a maximum of one year, on terms and conditions of the hospital, while accepting the tender.
- iii) Quotations qualified by such vague and indefinite expressions such as 'subject to immediate acceptance'; 'subject to prior sale' etc. will not be considered.

7. OPENING OF TENDER:

- I. The **Technical bids** will be opened on the specified date and time in the presence of bidders/representatives who choose to attend on the date and time as mentioned.
- II. The bidders/ representatives who are present in the opening shall sign evidencing their attendance.
- III. The **Price/Financial bids** of the bidders whose technical bids are found technically suitable (after the selection of samples / demonstration of equipment / Item, if any) only will be opened later. **The decision of the committee on technical suitability shall be final and shall not be opened for discussion.**

8. PRICES:

- i) Prices are to be quoted in Indian Rupees.
- ii) Prices quoted in the Price/Financial Bid must be meaningful and measurable in the context.
- iii) The prices quoted must be per unit shown in the schedule inclusive of all packaging, installation and delivery charges wherever applicable. Refunds on account of returnable package (if any) are to be separately specified. Price & Fund must be clearly shown in figures and words.
- iv) Tenderers should clearly specify whether prices quoted are inclusive of Sales Tax/ VAT / duties / statutory charges or such charges as extra. Where no specific mention is made to Sales tax / VAT/ or other duties, prices quoted shall be **deemed to be inclusive of such taxes / charges**.
- v) The ESIC Hospital and ODC (EZ), Joka, is not authorized to issue 'C/D forms'.

9. BID SECURITY / EARNEST MONEY:

The tenderer shall have to deposit an earnest money equivalent to the amount as mentioned against each of the equipment / instrument /item in annexure IV of the tender document **with their Technical Bid at the time of application, failing which the tender shall be rejected.** While quoting for more than one item, the earnest money mentioned against each quoted item are to be taken into consideration and added up while submitting the earnest money / bid security. The earnest money is to be paid by Demand Draft drawn in favour of **ESI Fund A/c No. 1, ESI Hospital & ODC (E.Z)**, payable at Kolkata. **NO CHEQUES OR CASH WILL BE ACCEPTED.** In the event of the withdrawal / revocation of tenders before the date specified for acceptance, the earnest money shall stand forfeited. In the event of acceptance of the tender the earnest money may be adjusted, on written request, towards the amount of security required to be deposited by the contractor in terms of Clause mentioned herein. The earnest money will however, be returned without interest to the tenderer whose tender is not accepted after the finalisation of the tender.

10. SECURITY DEPOSIT / PERFORMANCE SECURITY:

On acceptance of the tender, within the period specified by the Medical Superintendent, the successful tenderer / contractor shall deposit a sum equivalent to **10 % (Ten Percentages) of the Bill Value, rounded off to the nearest Rupee**, as security deposit, for due compliance & fulfilment of the terms and conditions of the contract. This has to be in the form of a bank draft, drawn in any of the nationalised bank, in favour of **ESI Fund A/c No. 1, ESI Hospital & ODC (E.Z)**, payable at Kolkata. **NO CHEQUES WILL BE ACCEPTED** for this purpose. On due performance and successful completion of the contract in all respect including warranty period, the security money deposit shall be returned to the contractor without any interest *on presentation of an absolute 'No Demand Certificate' in the prescribed form and upon return in good condition of any specifications, samples or other property belonging to the purchaser, which may have been issued to the contractor. If the contractor fails in fulfilling the terms and conditions mentioned here in different parts of this tender document, such failure will constitute a breach of the contract and the Medical Superintendent shall be entitled to make other arrangements at the risk and expense of the contractor. Also, non-performance/unsatisfactory performance or violation of terms and conditions of the contract will make the contractor liable for forfeiture of security deposit. The decision of the Medical Superintendent shall be final and binding on this count.*

11. DELIVERY TERMS:

- a. **Time and date of delivery:** The essence of contract: - The time for and the date of delivery of the stores / date of execution of work as stipulated in the schedule shall be deemed to be the essence of contract and delivery / execution must be completed not later than the date(s) specified. The delivery of the stores / execution of work / providing the services etc. are required within a period as specified in the purchase order and as the place mentioned therein. Normally maximum 6 weeks time is allowed from the date of issue of the purchase order for execution of the supply of the equipment / article. However, the time allowed for execution of order shall be governed by the stipulated time mentioned on the purchase order of Delivery of equipment / Items.
- b. The tenderer shall deliver the stores/ execute the work at the destination / space defined to the consignee / authority in good order (of which the Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, Kolkata shall be the sole judge) within the limits of the time as deemed reasonable and specify in such quantities/qualities as may be ordered by him from time to time.
- c. When a purchase order is placed to the successful tenderer, he shall have to acknowledge the receipt of the said order within 10 (ten) days of the issue.

- d. In case this office does not receive supply of the above item(s), by due or extended date of delivery, the above stated order will stand CANCELLED, unless extension is sought for and granted by the competent authority for the late supply. In such cases, purchase of the above items will be made at the tenderer's RISK & COST without his consent and correspondence in these regards. The competent authority reserves the right to recover the difference of excess expenditure so incurred from the tenderer's incoming bills or otherwise in addition to forfeiting the earnest money deposited by the tenderer.
- e. But if the delay shall have arisen from any cause, such as strikes, lockouts, fire accidents, riots, etc., which, the Medical Superintendent, ESIC Hospital & ODC (E.Z) may admit it as reasonable ground for further time, and the Medical Superintendent may allow such additional time required by circumstances of the case.

12. PAYMENT TERMS:

- 1) 100% Payment will be made only after supply, inspection, complete installation and satisfactory demonstration of performance of the item / equipment / instrument (including supply of all accessories) subject to deposition of a sum equivalent to 10 % (Ten Percentages) of the Bill Value as mentioned under Security Deposit / Performance Security Clause mentioned above or submission of Performance Bank Guarantee for 10% value of the order valid for the warranty period from any Scheduled Bank or. Otherwise 90% payment will be released after installation & balance 10% payment will be released after warranty period or against bank guarantee for the warranty period. No advance payment before effecting supply as above either part or full of any kind shall be made under any circumstances.
- 2) Payment shall be made through cheque or Electronic Clearing System. Normally, payment is made within six weeks after satisfactory inspection, installation and performance of the item / equipment / instrument subject to submission of appropriate and correct invoice, Challans and other documents as deemed fit.
- 3) In case of cheque, the same may be dispatched through Registered Post.

13. OTHER TERMS:

- a) **Responsibility for executing Contract:** The contractor is to be entirely responsible for the execution of the contract in all respects in accordance with the terms and conditions as specified in the acceptance of tender.
- b) The contractor shall not sublet transfer or assign the contract to any part thereof without the written permission of the Medical Superintendent. In the event of the contractor contravening this condition, Medical Superintendent be entitled to place the contract elsewhere on the contractors account at his risk and the contractor shall be liable for any loss or damage, which the Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, may sustain in consequence or arising out of such replacing of the contract.
- c) **Recovery of sums due:** Whenever any claim for the payment of a sum of money arises out of or under this contract against the contractor the purchaser shall be entitled to recover of such sum by appropriating, in part or whole the security/earnest money deposited by the contractor, when the balance or the total sum to be recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to recoverable under this or any other contract with the purchaser. Should this sum not be sufficient to cover the full amount recoverable, the contractor shall pay to the purchaser on demand the remaining balance due.
- d) **Insolvency and breach of contract:** The Medical Superintendent may at any time by notice in writing summarily terminate the contract without compensation to the contractor in any of the following events, that is to say:-
 - i) *If the contractor being an individual or if firm, any partner in the contractor's firm, shall at any time be adjudged insolvent or shall have a receiving order or orders for administration of his estate made against him or shall take any proceedings for liquidation or composition under any insolvency not for the time being in force or shall make any assignment of his efforts or enter into any arrangements or composition with his creditors or suspend payment of if the firm be dissolved under partnership act, or*
 - ii) *If the contractor being a company shall pass a resolution or the court shall make an order for the liquidation of the affairs or a receiver of Manager on behalf of the debenture holder shall be appointed or circumstances shall have arisen which entitled the court or debenture holders to appoint a receiver or Manager.*
 - iii) *If the contract commits any breach of this contract not herein specifically proved for: Provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue thereafter to the purchaser and provided also that the contractor shall be liable to pay the purchaser for any extra expenditure, he is thereby put to but shall not be entitled to any gain on repurchased.*
- e) **Arbitration:** In the event of any question, dispute or difference arising under these conditions or any special conditions of the contract, or in connection with this contract, except as to any matter the decision of which is specially provided for by these on the special conditions, the same shall be referred to the sole arbitration as appointed by the Medical Superintendent. It will be no objection that the arbitrator is a Govt. servant, that he had to deal with the matter to which the contract relates for that in the course of his duties as a Govt. servant he had expressed views on all or any of the arbitration dispute or difference. The award of the arbitrator shall be final and binding on the parties to the contract, it is a term of this contract: -
 - i. *If the arbitrator be Medical superintendent, ESIC Hospital & ODC (E. Z), Joka.*
 - *In the event of his being transferred to vacating his office by resignation or otherwise, it shall be lawful for his successor in office either to proceed with the reference himself or to appoint another person as arbitrator, OR*
 - *In the event of his becoming unable to act for any reason, it shall be lawful for Medical Superintendent, ESIC Hospital & ODC (E. Z), Joka, to appoint another person as arbitrator.*
 - ii. *If the arbitrator be a person appointed by the Medical Superintendent.*

In the event of his denying neglecting or refusing to act being unable to act, for any reason, it shall be lawful for the Medical Superintendent either to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator. It is further a term of this contract that no person other than the Director General, ESI Corporation or the person appointed by him should act as arbitrator and that if for any reason that is not possible, the matter is not to be referred to arbitrator at all. Upon every and such reference, the assessment of the costs incidental to the reference and award respectively shall be in the discretion of the arbitrator.

Subject as aforesaid the Arbitration Act, 1940 and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitrator proceedings under this clause. Work under the contractor shall, if reasonable possible continue during the arbitration proceeding and no payment due to payable by the purchaser shall be withheld on account of proceedings: - The venue of arbitration shall be at Kolkata.

- In the clause, the expression 'The Director General', ESI Scheme means, the Medical Superintendent, ESI Scheme for the time being and includes is there be no Medical Superintendent the officer who is for the time being the administrative head of the ESI Corporation, whether in addition or otherwise. For the purpose of the contract including arbitration proceedings there under, the Medical Superintendent, ESIC Hospital & ODC (E.Z), Joka, shall be entitled to exercise all the rights and powers of the purchaser.
- f) **Document:** The tenderer should have a valid **Trade licence, PAN / TAN / other statutory document as applicable** and produce attested copies of such certificates along with the tender papers in Technical Bid, failing which the tender is liable to be rejected.
- g) **Right to accept / reject:** The hospital authority reserves the right to **reject** any or all tender without assigning any reason whatsoever. Also, the hospital authority reserves the right to **award** any or part or full contract to any successful agency at its discretion and this will be binding on the tenderer.
- h) The quantity shown in the tender can be increased or decreased to any extent depending upon the actual requirement.
- i) **Assistance to contractor:** The contractor shall not be entitled to assistance either, in the procurement of raw materials required for the fulfilment of the contract or in the securing of transport facilities.
- j) In case of failure to comply with the provisions of the terms and conditions mentioned, by the agency that has been awarded the contract, the hospital authority reserves the right to award the contract to the next higher tenderer or outside agency and the difference of price will be recovered from the defaulter agency who has been awarded the initial contract and this will be binding on the tenderer.
- k) Medical Superintendent, ESIC Hospital & ODC (E.Z), Joka, does not pledge himself to accept the lowest or any tender and reserve to himself the right of accepting the whole or any part of the tender or portion of the quantity offered and you shall supply the same / execute the work at the rate quoted by you. You are at liberty to tender for the whole or any part.
- l) **Failure and Termination:** If the contractor fails to delivery the stores or any instalments thereof within the period prescribed for such delivery in the contract or any time liquidation the contract before the expiry of such period, the Director (Medical)/Medical Superintendent may without prejudice to his right to recover damages for breach of the contract, be entitled at his option.
- To recovery from the contractor as agreed liquidated damages, and not by way of penalty a sum equivalent to 2% of the price of any stores which the contractor has failed to deliver within the period fixed for delivery for the schedule for each month or part of the month during which the delivery of such stores may be in arrears, where delivery thereof is accepted after expiry of the aforesaid period, or
 - To purchase elsewhere, without notice to the contractor, on his account and at the risk of the contractor, the stores not delivered or stores of similar description (where stores exactly complying with the particulars are not in the opinion of the Director (Medical)/Medical Superintendent, ESIC Hospital & ODC (E.Z), Joka, readily procurable such opinion being final). Without cancelling the delivery in respect of the consignments not yet due for delivery, or
 - To cancel the contract or a portion thereof, and if so decided to purchase or authorise to purchase of stores not so delivered or other of a similar description (where stores exactly complying with the particulars are not, in the opinion of the Director (Medical) / Medical Superintendent readily procurable, such opinion being final) at the risk and cost of the contractor.

MEDICAL SUPERINTENDENT

SPECIAL TERMS AND CONDITIONS

The following special terms and conditions shall apply for supply of **Equipments and Instruments for Anaesthesia, ICU, CSSD, Orthopaedics and Physiotherapy – Medical College -2009-10**, at ESIC Hospital & O.D.C. (E.Z), Joka.

A. INSPECTION / INSTALLATION OF ITEMS / EQUIPMENTS:

Supplies shall be accepted and work shall be certified as completed subject to **satisfactory and complete installation** (upto full potentials claimed for that respective equipment/ Item) of the equipment / items supplied including supply of all accessories, and certified by the assigned officer, and subsequent inspection by Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, or his assigned representative. Any defect found in the materials / equipment / items supplied / work done will render the supplies / work open to rejection and decision of the Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, shall be final and legally binding. The tenderers shall **have to take the same (rejected store) back at their own cost and risk**, and **shall replace** such rejections with the items of standard specifications / quality as acceptable to the Hospital Authority. Alternatively, the stores may be purchased from others / work may be executed through others, at the risks and costs of the tenderer, at the discretion of the authority.

B. WARRANTY / GUARANTEE:

Along with the **Technical Bid** the following information are to be provided exclusively.

- (i) All the **equipments** shall be carrying **at least 1** (One) year warranty / guarantee against defects of manufacturer/workmanship and poor quality of components. Accordingly, the **tenderers shall indicate clearly** and exhaustively the mandatory warranty / guarantee offered by them / by the manufacturing / supplying firms, its duration, as well as the various Terms & Conditions involved therein, at the time of submission of the Technical Bid papers.
- (ii) The tenderer must be able to provide **after sales service** for the equipments quoted at least for a period of **five years**. A declaration to such effect must be accompanied with the offer, in the technical bid.
- (iii) **Uptime guarantee:** During the warranty/guarantee / AMC period the firm will maintain the equipment in good working condition. All the complaints will be attended by the firm within 24 hours of the dispatch of a complaint to their office. The firm shall ensure that machine is set right within 10 days (Ten Days) of the intimation. However, the tenderer have to arrange similar equipment as a standby at his cost and risk in case of breakdown. In case of the machine not being made functional within 10 days (Ten Days), **Stiff Penalty** equivalent to **1½%** of the cost of machine per week shall be levied for every week of delay at the discretion of the authority. In addition, the tenderer have to arrange similar equipment as a standby as stated above.
- (iv) A certificate about satisfactory performance of the equipment duly authenticated by other existing users of the equipment has to be supplied.

C. SOFT WARE UPGRADATION:

Free up-gradation of software (all update & upgrades) at least for 5 years is to be provided wherever applicable.

D. CERTIFICATES TO BE SUBMITTED ALONGWITH THE TECHNICAL BID:

The following written guarantee / declaration must be provided exclusively without which the quotation shall be liable for rejection.

1. The name, addresses, phone no, fax no, etc, of the authorised **service centre in Kolkata** for each of the specific equipment / Article / item quoted.
2. A certificate about satisfactory performance of the equipment duly authenticated by other existing users of the equipment has to be supplied.

3. A declaration that the after sales service facilities as well as spare parts shall be made available at least for five years for each of the specific equipment / Article quoted.
4. A declaration indicating willingness to provide AMC services at least for five years after the expiry of the warranty for each of the specific equipment quoted. Accordingly, the tenderer must quote prices for AMC, separately, for each year, for 5 years. **The quotation for the cost of such AMC are to be furnished along with cost of the equipment in the Price Bid. No such rate shall be mentioned in Technical Bid.**
5. A declaration that the specific equipment/article with the given specifications has not been sold / supplied to any other organisation at a lesser price than the price quoted here for each of the specific equipment quoted here.

E. SAMPLES / DEMONSTRATION

The firms should be prepared to demonstrate their item(s) / arrange for demonstration of items within 3 (Three) weeks from the date of opening of tender for verification / inspection, etc., or at a later date as decided by the competent authority. The firm shall have to comply with such conditions failing which the tenderer shall be liable for rejection and forfeiture of the Earnest Money. The tenderer / firm / company shall arrange for demonstration of equipment / Item / article at his own cost and risk. Tenderer who fails to demonstrate the equipments/ instruments quoted will not be considered for selection.

F. DETAILS OF ITEMS QUOTED:

It is mandatory to indicate the full name, make / brand, model number, and details specification of the equipments quoted by them, (in addition, a brochure of product information may be attached along with). Tenderers also have to indicate clearly the Name, Address and all Contact numbers of the MANUFACTURING FIRM and the firm responsible for providing AFTER SALES SERVICES, of the equipment quoted by them.

G. BUY BACK OFFER {wherever specified in the Schedules / Specifications (Annexure – IV)}:

Preference will be given to the bidder who offers for buy back of the condemned equipments. The rate for buy back offer of the condemned equipments is to be mentioned in the **Price Bid**. No such rate shall be mentioned in technical bid. The equipments which are offered for buy back may be inspected by the tenderers on any working day from 11 AM to 3PM.

MEDICAL SUPERINTENDENT

TENDER APPLICATION/DECLARATION FORM

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| 1 | Name of the firm:- | |
| 2 | a | Full Postal Address:- |
| | b | Cell Phone No. |
| | c | Telephone No:- |
| | d | Fax No. |
| | e | E-mail address: |
| 3 | Date of Establishment of Firm:- | |
| 4 | | If your Firm Registered under:- |
| | a | The Indian Factories Act:- |
| | b | Any other Act, if not, who are the owners (Please give full address):- |
| 5 | Name and Address of your Bankers stating the name in which the Account stands:- | |
| 6 | Whether insured against fire, theft, burglary etc. If so, please state the amount and name of company with policy no:- | |
| 7 | Total number of Employees:- | |
| 8 | Are you in the list of approved contractors of any other organisations / institutions, if any give details (Append extra page if necessary):- | |
| 9 | Give details of any Government contracts executed during the last twelve months (Append extra page if necessary):- | |
| 10 | Any other information which you consider necessary to furnish: | |

UNDERTAKING:

- I, the undersigned certify that I have gone through the terms and conditions mentioned in the tender document and undertake to comply with them.
- The rates quoted by me are valid and binding upon me for the entire period of contract and it is certified that the rates quoted are the lowest quoted for any other institution/ hospital in India.
- The earnest money of Rs. _____ to be deposited by me has been enclosed herewith vide Demand Draft no. _____, Dt. _____, drawn on bank _____, Branch _____.
- I hereby undertake to supply the items as per directions given in the tender document / supply order within stipulated period.
- I/We give the rights to Medical superintendent to forfeit the earnest money deposited by me/us if any delay occur on my/agent's part or failed to supply the article within the appointed time or the items of desired quality.
- There is no vigilance/CBI case or court case pending against the firm.

Date:-

Signature of the tenderer:-

Place:-

Full Name:-

Designation:-

(Office seal of the tenderer)

PLEASE QUOTE YOUR RATE AS PER THE GIVEN SPECIFICATIONS.

The amount of Earnest Money / Bid Security to be deposited for each of the item quoted is mentioned against each serialised item below. The total amount of Earnest Money for all the quoted items may be drawn in a single demand draft. However, in such case, the detail break up of earnest money submitted for each item is to be furnished in a plain paper along with the bank draft.

ANAESTHESIA, ICU, CSSD EQUIPMENTS

| Sl. No. | Name and Specification of Item | Proposed Quantity | Earnest Money / Bid Security amount to be deposited (Rs.) |
|---------|--|-------------------|---|
| 1. | <p>High Density LED Ceiling Mountable (with modular pendant) Surgical Lighting System</p> <ul style="list-style-type: none"> o Provision for high white light intensity across the full illuminated area for uniform vision to avoid visual distraction by reducing high contrast in the illuminated area o Adjustable beam size to suit the working area and eliminate peripheral distraction o Full Spectrum colour rendition to distinguish small differences in tissue and reduce eye strain o Two Dome HD LEDs lighting system for cold light avoiding heat in the surgical area o High intensity illumination of at least 140,000 Lux with near perfect colour rendition, shadowless performance with multiple overlapping beams and high peripheral illumination o The illuminated area and the range of adjustment shall be at least (300mm to 200mm) o Red balance control should have a R9 value of minimum 95 for enhanced visualisation of red tissue and improved tissue differentiation between same colour. o Lighting Intensity should be operated and monitored by wall mounted and operated, microprocessor based LED control centre in addition to light head intensity control. o Camera zoom control for integrated surgical camera preferable. o Solid state focus (field size) adjustment from the sterilisable handle preferable. o Integrated Video & Audio with the latest AV (Audio-Visual) technology, hardware and standard Medical software to produce the highest quality images, video and audio including all the elements to collect, review and display medical AV data with full 2-way audio and high definition video communication. o A full range of integrated high resolution video cameras and two surgical grade HD 19" TFT monitors o Heavy duty Double monitor mounting arms o Arms should be able to rotate 360° at the hub and 360° spring arm attached at the end of horizontal arm o With high Optical Zoom of at least 40x o Should have focal distance ranging from 10 mm to 1000 mm. o Local controls, remote controls and software controls (via IP) o Should have Autozoom, Auto focus and Auto brightness adjustment. o Should have a manual mode to control the camera. | 02 | 60,000/- |
| 2 | <p>Halogen Ceiling Mountable (with modular pendant) Surgical Lighting System: Modular Halogen Ceiling Mountable (with modular pendant) Surgical Lighting System Should have two domes. Main Surgery Light Head:</p> <ul style="list-style-type: none"> o Light Intensity: More than 1,40,000 lux o Depth of Illumination: Approx 4 feet o Facility for Electronic Light Dimming Settings o Light Source (primary) atleast 150 W Tungsten Halogen Bulb o Light Source (secondary, back-up) atleast 150 W Tungsten Halogen Bulb o Should be able to change over to the standby bulb automatically. o With Appropriate Filter and reflectors o Sterilizable Handle o Standard Input Voltage Range 220-240 Vac 50/60 Hz o Light Head Dimensions at least 20.0" Dia. o Light heads to be mounted on suspension system capable of providing 360° rotational positioning. o Arm Length (Maximum extendable Length) approximately 6 feet from center mount to light (for both the domes). <p>Satellite Surgery Light Head:</p> <ul style="list-style-type: none"> o At least 1,40,000 lux o Depth of Illumination: Approx 4 feet o Facility for Electronic Light Dimming Settings o Arm Length (Maximum extendable Length) approximately 6 feet from center mount to light. o Auto-switchover to reserve bulb in case of primary bulb failure. <p>Video Camera Specifications:</p> <ul style="list-style-type: none"> • Integrated Video & Audio with the latest AV (Audio-Visual) technology, hardware and standard Medical software to produce the highest quality images, video and audio including | 02 | 60,000/- |

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| | <p>all the elements to collect, review and display medical AV data with full 2-way audio and high definition video communication.</p> <ul style="list-style-type: none"> • A full range of integrated high resolution video cameras and two surgical grade HD 19" TFT monitors <ul style="list-style-type: none"> ○ At least 1/4" CCD ○ Should have focal distance ranging from 10 mm to 1000 mm. ○ Should have Autozoom, Auto focus and Auto brightness adjustment. ○ Integral Lens ○ With high Optical Zoom of at least 40x ○ Standard Sterilizable Handle ○ Should have a manual mode to control the camera | | |
| 3 | <p style="text-align: center;">ANAESTHESIA WORKSTATION</p> <ul style="list-style-type: none"> ○ The anaesthesia workstation should be a compact integrated system capable of working with circle semi open, Bain's circuit. ○ The workstation should have integrated electrical ventilator, compact reusable circle system. ○ Workstation should be capable of delivering low flow anaesthesia. ○ The basic unit of ventilator to be operate on mains with a battery back up of preferably 90 minutes. ○ NIST type pipeline & pin index cylinder inlet connections to be fitted at the rear side of machine. The ○ Workstation should have yokes for fitting at least 1 no. Oxygen & 1 no. Nitrous oxide. ○ Flow meters should have cascade double flow tubes to provide low flows. ○ Workstation to be provided with oxygen failure alarm. ○ Oxygen ratio controller should be available to ensure minimal supply of 25% of oxygen at any given time. ○ Provision for nitrous oxide to shut off when oxygen pressure drops. ○ Workstation should have provision to mount two agent specific vaporizer with easy inter change facility, vaporizer safety to ensure one vaporizer operates at a time, one number temperature & flow compensated Sevoflurane vaporizer to be supplied along with machine. ○ Workstation's ventilator should be capable of use for adult and paediatric patients using same bellows. ○ Ventilator keys should be of soft keys to adjust Tidal volume I: E ratio, Pmac etc. ○ Ventilator should have LCD display to show the pressure wave form, breath by breath. ○ LCD display of ventilator should display: Tidal volume, FiO₂ rate, Minute volume I; E ratio, peak pressure, PEEP, Alarm limits, Alarm messages. ○ Ventilator should have alarm settings for Tidal volume- Low & high, Minute volume – low & high, FiO₂ – low & high, Apnoea alarm, Low & high airway pressure. ○ Ventilator should be incorporated with flow sensor at Expiratory outlet and FiO₂ sensor at inspiratory inlet. ○ The workstation to be provided with silicon breathing system which should be fully autoclavable with water trap. ○ Workstation to be provided with twin drawer system with large working surface. ○ Workstation ventilator should have volume control and pressure control ventilator. ○ The equipment should have appropriate interface for computer integration. | 02 | 50,000/- |
| 4 | <p>VENTILATOR (I.C.U) - HIGH END</p> <p>1 Description of Function: ICU ventilators provide artificial respiratory support to the critical patients in the Intensive Care Units.</p> <p>2 Operational Requirements: Microprocessor Controlled ventilator with integrated facility for Ventilation monitoring suitable for New born to adult ventilation.</p> <p>3 Technical Specifications:</p> <ol style="list-style-type: none"> I. Standard hinged arm holder for holding the circuit II. Colored TFT screen, 12 Inch or more III. Facility to measure and display <ol style="list-style-type: none"> a) End tidal CO₂ with capnography. b) 3 waves- Pressure and Time, Volume and Time and Flow and Time. c) 3 loops- P-V, F-V, P-F with facility of saving of 2 Loops for reference. d) Graphic display to have automatic scaling facility for waves e) Status indicator for Ventilator mode, Battery life, patient data, alarm settings, clock etc IV. Trending facility for 24hours V. Automatic compliance & Leakage compensation for circuit and ET tube VI. Following settings for all age groups. <ol style="list-style-type: none"> a) Tidal Volume 10 - 2000 b) Pressure (insp) c) Pressure Ramp d) Respiratory Rate e) SIMV Respiratory Rate f) CPAP/PEEP g) Pressure support h) FIO₂ i) Pause Time | 02 | 50,000/- |

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| <p>j) Pressure & Flow Trigger</p> <p>VII. Modes of ventilation</p> <p>a) Volume controlled</p> <p>b) Pressure Controlled</p> <p>c) Pressure Support</p> <p>d) SIMV (Pressure Control and volume control) with pressure support</p> <p>e) CPAP/PEEP</p> <p>f) Inverse Ratio Ventilation</p> <p>g) Advanced mode like pressure controlled volume guaranteed</p> <p>h) Non Invasive ventilation</p> <p>i) APRV</p> <p>VIII. Apnea /backup ventilation</p> <p>IX. Expiratory block should be autoclavable and no routine calibration required</p> <p>X. Should have the ability to calculate / Procedure</p> <p>a. Facility to calculate lower and upper inflation point</p> <p>b. Occlusion Pressure</p> <p>c. Spontaneous Breathing trial</p> <p>XI. Nebuliser with capability to deliver particle size of < 3 micron & to be used in both Off and On line</p> <p>XII. Automatic Patient Detection facility preferable</p> <p>XIII. Integrated Medical Air Compressor. (Price to be quoted separately)</p> <p>a) Integrated Medical Air compressor</p> <p>b) Snap fit with the Ventilator module to provide an oil free Medical air.</p> <p>c) Peak output flow should be minimum 160 LPM.</p> <p>d) Air quality should comply with ISO compressed air purity class.</p> <p>e) Medical Air Compressor should automatically activate in the event of wall air supply loss.</p> <p>f) Replacement of internal filters should be performed without removing the compressor</p> <p>XIV. Technical Specifications for reusable face mask & nasal mask.</p> <ul style="list-style-type: none"> o Reusable face & nasal mask with textured dual flap silicone cushion flap for easy fit. o Removable forehead support and pad to match the angle of patient's forehead Stability Selector for easy fit and angle. o Ball & Socket headgear attachments. o Should be autoclavable. <p>XV. Battery back up for minimum 1 hour</p> <p>XVI. RS 232 interface for communications with networked devices.</p> <p>XVII. Automatic patient detection facility preferable.</p> <p>4 System Configuration Accessories, spares and consumables</p> <p>I. 4.1 ICU Ventilator - 01</p> <p>II. 4.2 Adult and Paediatric autoclavable silicone breathing circuits – 02 each</p> <p>(a) Reusable Masks (Small, Medium, Large) with each machine. 4.3 - 02 sets each</p> <p>(b) All Accessories for non invasive ventilation – 2 sets</p> <p>III. Medical Air Compressor. (Price to be quoted separately)</p> <p>IV. Humidifier -Servo controlled with digital monitoring of inspired gas temperature complete with heating wire - 02</p> <p>V. Filter paper for humidifier for 100 uses - 01</p> <p>5 Environmental factors</p> <p>I. The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%</p> <p>II. Shall meet IEC-60601-1-2: 2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.</p> <p>III. The unit shall be capable of operating continuously in ambient temperature of 10 - 40deg C and relative humidity of 15-90%</p> <p>6 Power Supply</p> <p>I. Power input to be 220-240VAC, 50Hz</p> <p>II. Suitable UPS with maintenance free batteries for minimum one-hour back up should be supplied with the system.</p> <p>III. Resettable overcurrent breaker shall be fitted for protection</p> <p>7 Standards, Safety and Training</p> <p>I. Certified to be compliant with ANS/IEC60601.2.12-01 Medical Electrical Equipment—Part - 12; Particular Requirements for the Safety of Lung Ventilators—Critical Care Ventilators</p> <p>II. Should be FDA or CE approved product</p> <p>III. Certified to be compliant with ISO-7767 for Oxygen monitoring.</p> <p>IV. Should meet IEC 529 Level 3 (IP3X)(spraying water) for enclosure protection, water ingress.</p> <p>V. Back to back warranty to be taken by the supplier from the principal to supply spares for a minimum period 10 years.</p> <p>VI. Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.</p> <p>8 Documentation</p> <p>I. Certificate of calibration and inspection from factory.</p> <p>II. List of Equipments available for providing calibration and routine maintenance support as</p> | | |
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| | <p>per manufacturer documentation in service / technical manual.</p> <p>III. User Manual in English</p> <p>IV. Service manual in English</p> <p>V. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.</p> <p>VI. List of important spare parts and accessories with their part number and costing.</p> <p>VII. Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.</p> <p>VIII. Back to back comprehensive warranty to be taken by the supplier from the principal to supply spares for minimum 10 years.</p> <p>The system should have appropriate communication ports / interfaces for computer integration.</p> | | |
| 5 | <p>VENTILATOR-PORTABLE (TRANSPORT VENTILATOR)</p> <p>Description of Function</p> <p>The portable ventilator is used to transport a patient with artificial respiration support or home care of a patient after discharge from a hospital.</p> <p>Operational Requirements and Specifications:</p> <p>The portable ventilator should</p> <ul style="list-style-type: none"> ➤ Be light weight and portable. ➤ Be microprocessor controlled. ➤ Operate with main electric supply as well as with battery. ➤ Be able to work both with cylinders and pipeline & room air. ➤ Have Connectors and high-pressure tubing of appropriate length supplied. ➤ Be demonstrated when asked for before effecting purchase ➤ Have turbine / venture / jet mixing- technology for supplying air- oxygen mixture. ➤ Have at least CMV, Assist-control, SIMV, PS-PEEP modes of ventilation (It should have a combination mode of pressure and volume to guarantee a minimum tidal volume while ensuring the Pressure Ventilation within safe limits). ➤ Have Audio-visual alarms for at least: Low supply pressure, High/low airway pressure, Leakage/disconnection, Power failure, Apnea, Low battery. ➤ Have settings for (capable of monitoring) : TV, PEEP/CPAP & PS, RR, I: E ratio, FiO2, Inspired Tv, Expired Tv, Airway Pressure Gauge, Inspiratory flow & Expiratory flow, Minute volume, Battery status. ➤ Have battery back up for minimum 1 hour ➤ Have additional port for recharging from ambulance ➤ Fix on rails of transport trolley and on stand with wheels. ➤ Oxygen Supply- Can operate either with high or low pressure oxygen sources. <p>System Configuration, accessories, spares and consumables of each set:</p> <ul style="list-style-type: none"> ➤ Portable Ventilator-01 ➤ Adult Reusable /Auto-clavable Silicon Patient Circuit- 02 ➤ Paediatric Reusable /Auto-clavable Silicone Patient Circuit- 02 ➤ Oxygen Hose – 01 ➤ Air Hose – 01 ➤ Rechargeable Batteries – 01 set <p>Environmental factors:</p> <p>The unit shall</p> <ul style="list-style-type: none"> ➤ Be capable of being stored continuously in ambient temperature of 0 -50⁰ C and relative humidity of 15-90% and Operating continuously in ambient temperature of 10 – 40deg C and relative humidity of 15-90% ➤ Meet IEC-60601-1-2: 2001 (Or Equivalent BIS) & General Requirements of Safety for Electromagnetic Compatibility. <p>Power Supply: Power input to be 220-240V AC, 50Hz</p> <p>Standards, Safety and Training:</p> <ul style="list-style-type: none"> ➤ Electrical safety should conform to standards for electrical safety IEC-60601 / IS-13450. ➤ Product should be FDA/CE or ISI approved. ➤ Manufacturer should have ISO certification for quality standards. ➤ Comprehensive warranty for 2 years and provision of AMC for next 5 years. <p>Documentation:</p> <ul style="list-style-type: none"> ➤ Manual should be supplied. ➤ Certificate of calibration and inspection from factory. ➤ List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual. ➤ List of important spare parts and accessories with their part number and costing. ➤ Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. ➤ The job description of the hospital technician and company service engineer should be clearly spelt out. ➤ Must submit user list and performance report from major hospitals, preferably govt. hospitals.. <p>The system should have appropriate communication ports / interfaces for computer integration.</p> | 1 | 10,000/- |

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| 6 | <p>MULTIPURPOSE OPERATING TABLE – ELECTRO-HYDRAULIC – WITH ORTHOPAEDIC AND C-ARM COMPATIBILITY FEATURES AND ACCESSORIES:</p> <ul style="list-style-type: none"> • Base cover, Column casing, Table top frame, traction bars and Accessories should be made up of Chrome Nickel Steel or appropriate metal. • Table top longitudinal sliding facilities facilitating whole body imaging • Radiolucent, Sectional Table top <ol style="list-style-type: none"> a. Three to five sectional back plate with detachable shoulder segments b. Seat plate with detachable buttock support c. Perineal rest d. Detachable divided leg plates • Foldable traction bars fixed beneath the seat plate with adjustable pivot joints • Guide rails beneath the seat plate for X-ray cassette insertion. • Detachable pads made of foam core or better materials, approximately 50 mm thick, Radiotranslucent • Electrically conductive. • Manual Kidney Bridge Elevation • T-base and rolls on casters for longitudinal and lateral movement. <p>BATTERY POWERED / MAINS OPERATION</p> <ul style="list-style-type: none"> • Hand control and Remote control for various Table functions. • Battery capacity for approx. 2 weeks for 50-80 operations. • Can be operated directly on Mains. <p>ELECTRO HYDRAULIC ADJUSTMENTS</p> <ul style="list-style-type: none"> • Height adjustments - 800-1200 mm (approx) • Lateral tilt Left / Right - 10-20 Degree (approx) • Trendelenburg - 15-30 Degree (approx) • Reverse Trendelenburg - 15-25 Degree (approx) • Back Plate Up - 50-70 Degree (approx) • Auto-leveling function <p>STANDARD ACCESSORIES</p> <ul style="list-style-type: none"> • Orthopaedic Traction, Arm board, Anaesthesia Screen, Infusion stand, Body strap, Accessory stand Mobile. <p>SPECIAL ACCESSORIES FOR</p> <ul style="list-style-type: none"> • 360 degree rotatable and detachable traction arms shall be preferred • Humerus, Tibia, Femur nailing • Interlocking Nailing of Femur in Supine position • Accessory for hip surgery. • Genucubital position with a chair <p>Accessory with UP / Down movement.</p> <ul style="list-style-type: none"> • Hand Operating Table • Knee positioning device for arthrotomy and arthroscopy and control • Thoracic and Pelvic plaster cast. • Skull traction and head rest for cervical spine surgery • Beach chair position accessories. | 04 | 90,000/- |
| 7 | <p>FIBRE-OPTIC INTUBATION SCOPE</p> <ol style="list-style-type: none"> 1. Scope should be suitable for ET Tube sizes 5.5 and above. 2. Functionally should be able to do suction, oxygen administration, administration of medication with removal of suction valve simultaneously. 3. Should have large viewing angle and highly movable distal tube for better orientation. 4. Should be water proof, fully immersible for cleaning and disinfection. 5. Should have a universal ET Tube holder for easy handling of tubes during intubation. 6. Tip deflection up/down- around 140° / 140° 7. Direction of view- 0° 8. Angle of view around 110° 9. Instrument Channel – around 2.3 mm 10. Working length – not below 65 cm 11. Total length- around 90 – 95 cm 12. Distal Tip O.D. – around 5.2 mm 13. Should be provided with the following accessories: <ol style="list-style-type: none"> a. Instrument Carrying case b. Cleaning brush c. Pressure compensation cap d. Leakage tester e. Mouth piece f. Cleaning adapter for valve housing g. Suction valves, Disposable. (package of 20) h. Universal ET Tube adapter. 14. Should be provided with biopsy forceps, with double action jaws, flexible, minimum length | 02 | 30,000/- |

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| | of 120 cm with diameter of around 1.7 mm. 15. Should be provided with grasping forceps, double action jaws, flexible, minimum length of 120 cm, with diameter of around 1.7 mm. | | |
| 8 | ULTRASONIC CLEANER <ul style="list-style-type: none"> ○ The tank size should be of minimum length of 500 mm, breadth 300 mm and depth 250 mm ○ The tank material should be of 316 s.s. ○ Ultrasonic power to be around 500 watts ○ Should have ultrasonic frequency of about 30 KHz ○ The heater should be of minimum 1.5 KW ○ Should be provided with a thermostat ○ Transducer should be of PZT elements in sandwich form ○ Should be able work on 220 – 240 volts, single phase. ○ Should be fitted with a timer. ○ Should be provided with lid and baskets | 01 | 8,000/- |
| 9 | WASHER DISINFECTOR <ul style="list-style-type: none"> ○ Machine should be able to load from one side and cleaned materials should be unloaded from the other side. ○ To be equipped with atleast 4 spray arms for effective water penetration ○ Suitable attachments to be provided to suit the load to be washed. ○ To be provided with dosing pump for detergent use. ○ To be provided with sensor to detect level in soap tank. ○ To be provided with sensor to detect water in chamber ○ To be provided with a display channel showing the nature of fault, whenever there is a fault in the machine. ○ Should be provided with a solenoid valve for final rinse with purified water. ○ The disinfectant should run with electricity. ○ Size of chamber to be minimum 600 x 700 x 700 mm ○ Detergent to be used for cleaning should be any liquid soap. ○ Should be provided with a dryer. | 01 | 20,000/- |
| 10 | DEFIBRILLATOR BIPHASIC WITH CARDIAC MONITOR WITH EXTERNAL PACER <ul style="list-style-type: none"> ○ Lightweight, easy-to-use, Biphasic Defibrillator with Monitor & Recorder with external pacer with AED (preferable) and manual Modes ○ Pulsed bi-phasic defibrillation technology ○ Multi-function defibrillator pads—Adult and pediatric pads for defibrillation, ECG monitoring, pacing and synchronized cardioversion. ○ Selectable energy (from 2 to 200 Joules) ○ High Resolution atleast 10" colour LCD Screen ○ 6 lead ECG display, (12 lead ECG monitoring preferable with 10 lead cable) ○ Integrated high resolution recorder with auto & manual modes ○ Internal memory for ECG & events ○ Automatic & manual printing of measurements, trends, events, alarms etc. ○ 24 hours graphical & tabular trend ○ Mains & battery operated ○ Pulse Oxymetry ○ External Pacemaker with Fix, Demand & Overdrive mode ○ Synchronized cardioversion ○ NIBP monitoring ○ Internal Defibrillation | 03 | 20,000/- |
| 11 | MULTIPARA VITAL SIGN MONITOR <ul style="list-style-type: none"> ○ Large ATLEAST 12" TFT Display ○ ECG, SpO2' NiBp, Resp, 2-Temp, 2-IBP ○ ETCO2, CO, gas monitoring ○ 8 channel waveform display ○ 4 channel ECG waveform and enlarged waveform display ○ Drug dose calculation and advanced arrhythmia analysis ○ Built-in Rechargeable Battery ○ Patient information management function, such as patient ID, Age, Sex, Wardar No., Height, Weight, Etc | 05 | 35,000/- |
| 12 | MOBILE, DIGITAL X-RAY UNIT WITH INTEGRATED FLAT PANNEL DETECTOR / MONITOR WITH OUTPUT UPTO 360 mAs The self-calibrating high imaging output, up to 30 kW and 360 mAs, High-quality control images can be visualized through touch screen TFT screen / monitor (Integrated flat panel detector). It should support basic image processing functions, such as brightness, contrast and edge enhancements directly on the system. It should have Holder for detector and grid. DICOM 'Send and Print' functionalities should be available for easy storage or printing of all X-ray images within the hospital IT network. The system should enable the image data transmission via wired or wireless LAN access to the hospital IT system for convenient archiving and fast documentation. It should have internal image memory. The equipment should have a small footprint on large castor wheels for easy maneuverability with properly counterbalanced, folding swivel arm with integrated motor drive. It | 01 | 8,000/- |

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| | should have dual source power for exposures (long life rechargeable batteries and a conventional power outlet). | | |
| 13 | <p>Table Top High Speed Flash Sterilizer with Drying Autoclaves, Fully Stainless Steel</p> <ul style="list-style-type: none"> ○ Atleast 16 litre capacity, Compact ergonomic design with fully automatic flash cycle requiring a sterilizing time of just 7 minutes at 134°C ○ Atleast 2 trays ○ Single lever pronged closure system with Silicone Gasket system ○ Microprocessor Controller with programmable parameters ○ End cycle buzzer and auto reset. ○ Valves for water filling and exhaust. ○ Industrial Grade energy efficient heater. ○ Drying with door open facility. ○ Sensor open alarm and over temperature protection. ○ Pressure interlock on door. ○ Spring loaded safety valve for over pressure | 02 | 15,000/- |
| 14 | <p>Mannequin for CPR</p> <p>(Adult): The full body manikin to allow training of the CPR procedures supplied with a storage case. Palpable and visual landmarks. Fully articulated head, neck, jaw. Modular expandability features. Features for mechanical monitoring to get feed back on ventilation volume, stomach inflation, chest compression depth and wrong hand position. Features of Flexible defibrillator electrodes to train with all leading brands of defibrillators. Features for Intubation with ordinary oral tube, Laryngeal mask and Combitube, defibrillation, ECG lead diversion and IV training, etc. Facility for PC connection for CPR Software application. Features for ECG Box (Optional) simulating many rhythms and artefacts. Appropriate carrying case.</p> <p>Airway management Intubation Trainer: For teaching intubation techniques with laryngoscopes, airways, endotracheal tubes, LMA (Laryngeal Mask Airway), and other auxiliary aids for airway management. Accurate simulation of mouth, nostrils, teeth, tongue, pharynx, larynx, epiglottis, vocal cords, trachea, esophagus and lungs. Features of realistic lifting and tilting of head, Realistic movement of the head, cervical spine and jaw simulate relevant anatomical changes during intubation. One side of the head is to be open, permitting supervision of the student's performance. The walls of the pharynx and trachea are transparent, enabling the student to follow the tube down the throat. Acoustic signals carry case. Dimensions (with transport cover) 40 x 24 x 35 cm. Weight: 9 kg.</p> <p>IV Trainer: For training insertion of cannulas and catheters, infusion of fluids, injection of medication, blood-sampling and pulse measurement. Replaceable skin and veins featuring hole closure after penetration. Movable wrist and rotating arm for realistic training, Multi-purpose carry case.</p> <p>Baby Mannequin: Baby cpr manikin corresponding baby up to one year old to enable individuals to practice and teach basic lifesaving with a very lifelike simulation.</p> | 01 | 12,000/- |
| DEPARTMENT OF ORTHOPAEDICS | | | |
| 1 | <p>AUTOMATIC PNEUMATIC TOURNIQUET WITH HOSE AND CUFF</p> <p>Fully Automatic micro processor / controller based double cuff procedure system, Two independent channel operation, battery operated, portable, Parameter settings are independent of each other ⚡Can be operated with one dual / double cuff or two single separate cuffs with different pressures ⚡To be Provided with one set of standard dual cuffs and also two sets of three standard size single cuffs ⚡ Built in battery charging circuit for immediate charging ⚡Cuff pressure is maintained to set value automatically ⚡Online cuff pressure and time settings can be altered ⚡ time based alarms to give warning messages ⚡Independent elapsed time display for both the channels ⚡ Colour coded cuffs and air tubing; ⚡Coiled, expandable and puncture resistant PU tubing ⚡ large Digital display of values, Strong and sturdy carrying case for whole Tourniquet system.</p> | 02 | 3,000/- |
| 2 | <p>Battery-operated Universal Light weight Compact, Modular Orthopaedic Power Drill System:</p> <p>Should be Light, handy and versatile, with Variable speed with oscillating drilling, Durable and powerful batteries or power adapter, Easy to use, highly functional attachments, and with Microprocessor controlled universal battery charger with following composition: Compact Universal Hand-piece, compatible Battery Casing, Rechargeable compatible Battery (two sets), Battery Casing for universal drill Power Pack, Battery for Compact Universal Hand-piece Power Pack, 14.4 VDC, Compact Universal drill Sterile Cover, Universal Battery Charger, 2 Charging bays, Jacobs Chuck with Key, 0-6.0 mm, Quick Coupling, AO/ASIF Adapter for Medullary Reaming, Oscillating Saw Attachment, Saw Blade 30 x 15 x 6 x 0.4mm, Saw Blade 30 x 15 x 10 x 0.4mm, Saw Blade 30 x 15 x 16 x 0.4mm, Saw Blade 42 x 27 x 6 x 0.6mm, Saw Blade 42 x 27 x 10 x 0.6mm, Saw Blade 42 x 27 x 14 x 0.6mm, Saw Blade 65 x 50 x 10 x 0.6mm, Saw Blade 65 x 50 x 14 x 0.6mm, Saw Blade 65 x 50 x 20 x 0.6mm</p> | 01 | 10,000/- |
| 3 | <p>Electric / battery powered Dermatome Skin Grafting System with autoclave case:</p> <p>Electric / battery Dermatome Handpiece Power Supply Autoclave Case Width Plate, 1 in. (3cm) approx Width Plate, 2 in. (5cm) approx Width Plate, 3 in. (8cm) approx</p> | 02 | 1000/- |

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| | Width Plate, 4 in. (10cm) approx Dermatome Screwdriver Dermatome Blades Sterile | | |
| 4 | <p>AIR POWERED TOOLS / DRILL SET AND AIR COMPRESSOR</p> <p>Compact Air Drill Drives / Hand pieces (for Drilling, Reaming, and Saw Functioning), universal, with continuous variable speed regulation and forward and reverse operation with double air hose for controlled air circulation with the following accessories (which can be attached to the above Air Drill Drives):</p> <ol style="list-style-type: none"> Quick Coupling, for compact Air Drive Quick Coupling for DHS/DCS Triple Reamers Oscillating Saw Attachment with Quick Coupling, for the compact Air Drive Oscillating Saw Attachment with variable deflection, for Compact Air Drive Chuck with Key, for Compact Air Drive Quick Coupling for Kirschner Wires size 0.6 to 3.2 mm, for Compact Air Drive Attachment for Acetabular and Medullary Reaming, with reverse option Radiolucent Drive Drill Bits for Radiolucent Drive, 2.0, 2.5, 3.2, 4.5, one each Torque Limiter, 1.5 Nm, for Compact Air Drive Torque Limiter, 4 Nm, for Compact Air Drive Key, for fixing of saw blades Standard Reamers for Intramedullary reaming along with reaming hand-pieces: From 8 mm to 12 mm sizes at 0.5 increments. Standard Saw Blades for general traumatology with staggered teeth design for Oscillating Saw and Oscillating Saw Attachments of Compact Air Drive: 6 blades (6 consecutive sizes of standard saggital saw blades) and 3 blades (3 standard Diamond saw blades of appropriate Sizes) for Oscillating Saw with AO Coupling. Double Air Hoses, 5 meters in length, High quality, puncture proof: Two Such (one extra for standby). Appropriate Airflow regulator Sterilising / storage case for the Compact Air Drive, with Lid Lubricating Oil of standard quantity. s) Air compressor of appropriate capacity for the universal air drill as above, connecting pipes and fittings and complete installation. t) Air filters for air compressor. | 01 | 10,000/- |
| 5 | <p>Operating Microscope with beam splitter with binocular side view channel and CCD camera attachment:</p> <p>To be used for plastic surgery and orthopedic surgery, as well as hand surgery. Features for foot pad operated motorization of the focusing, the zoom magnifications, and the centering of the optics over the working field of view on an X - Y grid. Two identical binocular heads with zoom magnification features for two surgeons to simultaneously view the operating procedure. Sets of 12.5x eyepieces. Three different bottom objective lens: approx: f200mm, f250mm, f300mm, etc., having controllable zoom magnification range through each objective lens. A monocular teaching tube tot allows a second surgeon/assistant to view the surgery simultaneously. Standard feature of a beam splitter built in, to create a photography port on the side of the head so that an optional c-mount can be screwed to the beam splitter photography port so as to connect an optional CCD camera for output of the image to an optional CCTV monitor for all the surgeons in the operating room to simultaneously view the operation procedure. The illumination of the system should consist of a cold light source (halogen / LED) with fibre optics and is coaxial to the optics. Should come with standard accessories, stand, and Indian plug point compatible electrical cables</p> | 1 | 10,000/- |
| 6 | <p>High resolution DLP Multimedia projector with Laptop:</p> <p>Projector: Atleast 2500 ANSI Lumens to ensures high brightness for use in most any conference room or classroom setting. DLP Technology. Contrast ratio of atleast 2500:1, Video Compatibility (DTV/HDTV): 480i, 480p, 540p, 576i, 576p, 720p, 1035i, 1080i, 1080p with 4:3 and 16:9 aspect ratios, Table top and Ceiling mountable with attachments, Remote.</p> <p>Laptop: 15 " / 16", Processor: Intel Core 2 Duo Atleast T6500 Processor (2.1GHz/800 MHz FSB/2MB L2 cache), Operating System: Microsoft® Windows® Vista Home Premium, Memory: Atleast 4GB Dual-Channel DDR2 SDRAM at 800MHz (2 Dimms), Hard Drive: At least 500GB SATA 5400 RPM Hard Drive, Webcam: Integrated 1.3M Pixel Webcam, DVD Drive: 8X DVD+/-RW Dual Layer Drive Write & Read CDs and DVDs, Battery: 9 cell Lithium Ion, Primary Battery, Video Card: Atleast Intel Integrated Graphics Media Accelerator 4500MHD, Monitor: Approx 15 / 16" High Definition (720p) LED Display, Network: Wireless 1397 (802.11b/g 54 Mbps) Internal Wireless, Integrated 10/100 Network Card(RJ45), Sound Card: Intel High Definition Audio 2.2 Sound Card, I/O Ports: At least 3-USB 2.0 Compliant 4-Pin Ports, 8-in-1 Meida Memory Card Reader, IEEE 1394 Firewire port, USB/eSATA Combination Port, VGA video output & HDMI, Network Connector (RJ45), Microphone/speaker, ExpressCard 34mm Slot, Power Adaptor , At least 3 years warranty.</p> | 01 | 4,000/- |

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| 7 | AUTOMATED CONTINUOUS PASSIVE MOTION (C.P.M.) Lower Limb: Automatic Angle adjustment Digital timer. Up-Down start operation with timer with Buzzer Adjustable Hold period Adjustable Flexion angle atleast 30, 40, 50, 60, 70, 80, 90, 100, 110, degrees, etc. Adjustable Extension angles Patient safety switch | 02 | 10,000/- |
| 8 | Combination Therapy Unit, for electro, ultrasound, combination and Simultaneous therapies : ❖ Dual channel combi unit for electro and ultrasonic therapy unit. ❖ Simultaneous use for both the modalities. ❖ 1 & 3 MHz multi frequency ultrasonic therapy ❖ Ift, tens, diadynamic, Russian, faradic, galvanic, trarbert, ultraritz currents in electro therapy. ❖ 1 cm ² and 4 cm ² water resistant transducer head with visual contact indicator. ❖ Disease wise program and manual program. ❖ 4.3" colour touch screen monitor for better control. ❖ Online help for various common disease. ❖ Patient encyclopedia with anatomic view (normal, muscular & skeletal). | 01 | 10,000/- |
| 9 | INTERFERENTIAL THERAPY UNIT, MICROPROCESSOR CONTROLLED: Micro computer controlled Base frequency & Sweep frequency. User friendly software, easy to use Real time current sensing system Large LCD display with backlight preferable Output / Carrier frequency: (1) 4 KHz (2) 2 KHz Base / constant frequency: atleast 10 to 200 Hz Sweep / beat frequency: atleast 10 to 200 Hz Spectrum programme: Square/rectangle, Triangle, Trapezoid Treatment modes: 1. Two electrode Bipolar static (2EL) 2. Four electrode Static Interferential (4EL) 3. Four electrode Vector Dynamic (4ELV) | 01 | 10,000/- |
| 10 | Dual Channel Surface Electromyographic (EMG) Biofeedback Therapy System with computer interface: ❖ Dual channel emg output display with bar graph ❖ Rest interval 1-60 sec. ❖ Sensitivity 20 microvolt-2 milivolt ❖ Audio feed back above or below threshold ❖ Save up to 30 min of data for review & measurement. ❖ Pulse rate 2-100 Hz and pulse widths 50-450 microsecond. ❖ Work/rest interval 1-20 seconds with output current up to 80mA | 01 | 1000/- |
| 11 | Hand Dynamometer: ❖ Hydraulic hand dynamometer ❖ Measuring range 0-90 Kgs ❖ 5 Gripping position. ❖ Cast Aluminum make adjustable handle. | 02 | 500/- |
| 12 | 8 Station Multigym: Tower training multi gym with 8 station and complete accessories Leg Press 100 Kg. Chest Press 100 Kg. Butterfly 70 Kg. High Lat Pulley 70 Kg. Low Pulley 60 Kg. Dipping , Abdominal Board ,Twister | 01 | 8000/- |
| 13 | MUSCLE STIMULATOR DIGITAL ELECTRICAL: Solidstate IC Output indication by Digital meter Timer : Digital timer. Up-Down-Start operation with timer Buzzer : Preferable Type of current: Galvanic, Interrupted Galvanic, Faradic, Surged faradic, Additional TENS preferable. Output voltage 0-30 volt & output current 100 mA. IG Pulse width : At least 10, 30, 100, 300 micro sec. 1, 3,10, 30, 100, 300 Milli sec. IG pulse rate : 100, 50, 30, 10, 5, 3, 1 per sec. 15, 10, 5 pulse per min. Surged Faradic : In rest /contraction period: atleast 2-6 Sec | 01 | 6000/- |
| 14 | Quadriceps table with Quadriceps-hamstrings torsion arm: ❖ Effective quadriceps and hamstring without changing patient position. ❖ Foam padded table and a torque unit with two lever arm. ❖ Resistance is adjustable by changing angle between two arms. ❖ Complete with Weight set | 01 | 1000/- |
| 15 | Short Wave Diathermy atleast 400 watts, Micro processor controlled: ❖ High performance solid state generator. ❖ Continuous and pulse mode (allows thermal and a- thermal treatment) ❖ Captive and inductive applicator. ❖ 400 w out put power in pulsed mode. ❖ 200 w output power in continuous mode. | 01 | 10,000/- |

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| | <ul style="list-style-type: none"> ❖ Digital timer 0-30min. ❖ Frequency 27.12 MHz. ❖ Pulse frequency 70-350 Hz.. | | |
| 16 | Static Aerobic Bicycle: <ul style="list-style-type: none"> ❖ Dual shock absorber ❖ Cycle with rowing exercise ❖ Adjustable tension ❖ Digital meter showing , distance, speed, & calorie | 01 | 500/- |
| 17 | Motorised Traction Unit: Traction –Motorised, Microprocessor controlled with digital display, Lumbar - Cervical - Ankle Traction unit with Table / Bed, with standard accessories | 01 | 10,000/- |
| 18 | 4 CHANNEL TENS: Micro Computer based model, Digital Display Separate display for Each channel intensity, Timer Pulse for TENS INTERNATIONAL STANDARD : 1, 5, 10, 25, 50, 70, 90, 100, 120, 150, 200 Freq./Sec. Pulse width INTERNATIONAL STANDARD: 100, 125, 150, 175, 200, 225, 250, 275, 300, 325 & 350 Micro Sec. Output current 60ma for each channel, STAINLESS STEEL ELECTRODE | 01 | 1000/- |
| 19 | Treadmill - Motorised, atleast 125 kg capacity ≥2.0 HP (Peak ≥4.0 HP), multi programmes & body fat analysis(preferable): <ul style="list-style-type: none"> ❖ Entertainment ready high fidelity stereo acoustics (preferable). ❖ AC motor: capacity ≥2.0 HP (Peak ≥4.0 HP) ❖ atleast 125 kg capacity ❖ Speed 1-18 kph ❖ Incline 0-16% ❖ Super silent oxygen source ❖ Hand pulse sensor ❖ Convenient hand controlled speed & incline ❖ Quick speed, quick incline. ❖ Easy incline, 5 program upland running ❖ Diverse speed and incliner program ❖ Self stop. | 02 | 20000/- |
| 20 | INFRA RAY LAMP: 15 minute timer for presetting treatment time High low indication switch. Height, angle, direction adjustment features Castor wheel floor stand feature | 03 | 500/- |
| 21 | 3.5 Small Fragment DCP & LC-DCP Instrument Set, in Aluminium Case Comprising of the following | 01 set | 10,000/- |
| 1 | Aluminium Case, Coloured, deep, perforated, without contents | 1 | |
| 2 | Lower Tray for Instruments, no contents for Aluminium Case | 1 | |
| 3 | Tray for Plates, for Aluminium Case, without contents | 1 | |
| 4 | Upper Tray for Aluminium Case, without contents, | 1 | |
| 5 | Countersink Shaft 3.5, L 72mm | 1 | |
| 6 | Tap for 3.5mm Cortex Screws L 50/110mm | 2 | |
| 7 | Tap for 4.0mm Cancellous Bone Screws L 110mm | 2 | |
| 8 | T-Handle with quick coupling, L 80mm | 1 | |
| 9 | Double Drill Sleeve 3.5/2.5 | 1 | |
| 10 | Insert Drill Sleeve 3.5/2.5, L 42mm Drill Bit 2.5mm dia. | 1 | |
| 11 | Screwdriver, hexagonal, small, with Holding Sleeve | 1 | |
| 12 | Screwdriver Shaft, hexagonal, small, L 100mm, for quick coupling | 1 | |
| 13 | Screwdriver, hexagonal, small, with groove, L 200mm | 1 | |
| 14 | Holding Sleeve, L 80mm, for Screwdriver, hexagonal, small | 1 | |
| 15 | Depth Gauge for 2.7mm to 4.0mm Screws | 1 | |
| 16 | Sharp Hook, L 155mm | 1 | |
| 17 | Holding Clip 4.5 - 7.0mm | 2 | |
| 18 | Screw Forceps, self-retaining, L 85mm | 1 | |
| 19 | DCP Drill Sleeve 3.5 for neutral and load position | 1 | |
| 20 | Bending Iron, slit widths 4.5/2.5mm, L 150mm, for Plates 2.7 and 3.5 | 1 | |
| 21 | Bending Iron, slit widths 2.5/4.5mm, L 150mm, for Plates 2.7 and 3.5 | 1 | |
| 22 | Bending Pliers for Plates 2.4 to 4.0, L 230mm | 1 | |
| 23 | Bending Template for DCP 3.5 and LC-DCP 3.5, L 87mm | 1 | |
| 24 | Bending Template for DCP 3.5 and LC-DCP 3.5, L 114mm | 1 | |
| 25 | Wire Bending Pliers, L 155mm | 1 | |
| 26 | Bending Iron, for Kirschner Wires 1.25 to 2.5mm dia., L 120mm | 1 | |
| 27 | Reduction Forceps with points, L 130mm | 1 | |
| 28 | Reduction Forceps with points, wide, ratchet lock, L 132mm | 1 | |
| 29 | Reduction Forceps, toothed, ratchet lock, L 140mm | 1 | |
| 30 | Bone Holding Forceps, self- centering, speed lock, L 190mm | 1 | |
| 31 | Retractor, small, 8mm wide, short narrow tip, L 160mm | 2 | |

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| | 32 | Periosteal Elevator, round edge, 6mm wide, L 200mm | 1 | |
| | 33 | Retractor, 15mm wide, L 160mm | 2 | |
| | 22 | 4.5 LC-DCP and DCP Basic Instrument Set, in Aluminium Case Comprising of the following: | 01 set | 12,000/- |
| | 1 | Aluminium Case, Coloured, deep, perforated, without contents | 1 | |
| | 2 | Upper Tray for Instruments for Aluminium Case, no contents | 1 | |
| | 3 | Spare Tray, without contents, Aluminium Case | 1 | |
| | 4 | Lower Tray for Aluminium Case, without contents | 1 | |
| | 5 | Countersink, large, L 180mm | 1 | |
| | 6 | T-Handle with quick coupling, L 80mm | 1 | |
| | 7 | Tap for 4.5mm Cortex Screws, L 70/125mm | 2 | |
| | 8 | Tap for 6.5mm Cancellous Bone Screws L 195mm | 1 | |
| | 9 | Double Drill Sleeve 4.5/3.2 | 1 | |
| | 10 | Insert Drill Sleeve 4.5/3.2, L 80mm | 1 | |
| | 11 | Double Drill Sleeve 6.5/3.2 | 1 | |
| | 12 | Screwdriver Shaft, hexagonal, large, L 100mm | 1 | |
| | 13 | Screwdriver, hexagonal, large, with groove, L 240mm | 1 | |
| | 14 | Holding Sleeve, large, L 120mm | 1 | |
| | 15 | Depth Gauge for 4.5 to 6.5mm Screws | 1 | |
| | 16 | Sharp Hook, L 155mm | 1 | |
| | 17 | Tension Device, articulated | 1 | |
| | 18 | Combination Wrench, 11mm, L 140mm | 1 | |
| | 19 | DCP® Drill Sleeve 4.5 | 1 | |
| | 20 | LC-DCP Drill Sleeve 4.5 | 1 | |
| | 21 | Universal Drill Sleeve 4.5 | 1 | |
| | 22 | Bending Template for DCP 4.5 and LC-DCP 4.5, L 210mm | 1 | |
| | 23 | Bending Template for DCP 4.5 and LC-DCP 4.5, L 120mm | 1 | |
| | 24 | Bending Template for DCP 4.5 and LC-DCP 4.5, L 155mm | 1 | |
| | 25 | Ratchet Wrench, 11mm, L 140mm | 1 | |
| | 23 | DHS & DCS Instrument set in Aluminium Case Comprising of the following: | 01 set | 14,000/- |
| | 1 | Aluminium Case, Coloured, coloured Lid, perforated, without contents | 1 | |
| | 2 | Upper Tray for Instruments for Aluminium Case, without contents | 1 | |
| | 3 | Lower Tray for Instruments for Aluminium Case, without contents | 1 | |
| | 4 | DHS/DCS Threaded Guide Wire, 2.5mm dia., L 230/5mm | 10 | |
| | 5 | DHS Angled Guide 135° | 1 | |
| | 6 | DHS Angled Guide 150° | 1 | |
| | 7 | DHS/DCS Direct Measuring Device | 1 | |
| | 8 | DHS/DCS Wrench for one-step insertion L 230mm | 1 | |
| | 9 | DHS/DCS T-Handle with quick coupling, L 80mm | 1 | |
| | 10 | DHS Triple Reamer | 1 | |
| | 11 | DHS/DCS Impactor for one-step insertion, L 260mm | 1 | |
| | 12 | DHS/DCS Tap, L 220mm | 1 | |
| | 13 | DHS/DCS Centering Sleeve, locking | 1 | |
| | 14 | Coupling Screw, cannulated | 1 | |
| | 15 | DCS Angled Guide | 1 | |
| | 16 | DCS Triple Reamer | 1 | |
| | 24 | Wire Instrument Set in Aluminium Case Comprising of the following: | 1 Set | 15,000/- |
| | 1 | Aluminium Case, coloured / coated, deep, coloured Lid, perforated, without contents | 1 | |
| | 2 | Spare Tray, without contents, for nos. Aluminium Case | 1 | |
| | 3 | Lower Tray, for Aluminium Case, without contents | 1 | |
| | 4 | Triple Drill Guide 2.0 with 3 holes, opposite side 1 hole | 1 | |
| | 5 | Wire Passer, 45mm bending diameter | 1 | |
| | 6 | Wire Passer, 70mm bending diameter | 1 | |
| | 7 | Wire Tightener with handle and two pegs, L 240mm | 1 | |
| | 8 | Holding Forceps for Cerclage Wires, L 170mm | 2 | |
| | 9 | Wire Bending Pliers, L 155mm | 1 | |
| | 10 | Parallel Pliers, flat nosed, L 160mm | 1 | |
| | 11 | Wire Cutter, large, L 220mm | 1 | |
| | 12 | Wire Cutter, short, L 175mm | 1 | |
| | 13 | Bending Iron, for Kirschner Wires 1.25 to 2.5mm dia., L 120mm | 1 | |
| | 14 | Wire Mount | 4 | |
| | 15 | Cerclage Wire, 1.0mm dia., with eye L 280mm | 2 | |
| | 16 | Cerclage Wire, 1.25mm dia., with eye L 280mm | 1 | |
| | 25 | General Instrument Set in Aluminium Case Comprising of the following: | 01 set | 12,000/- |
| | 1 | Aluminium Case, coloured, deep, coloured Lid, perforated, without contents | 1 | |
| | 2 | Spare Tray, without contents, for Aluminium Case | 1 | |
| | 3 | Lower Tray, for Aluminium Case, without contents | 1 | |
| | 4 | Bone Hook, sharp, small, L 230mm | 1 | |

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| 5 | Bone Hook, sharp, medium, L 230mm | 1 | |
| 6 | Retractor, 8mm wide, short narrow tip, L 220mm | 2 | |
| 7 | Retractor, 18mm wide, short narrow tip, L 235mm | 2 | |
| 8 | Retractor, 24mm wide, long and wide tip, L 270mm | 1 | |
| 9 | Periosteal Elevator, curved shaft, 14mm wide, L 200mm | 1 | |
| 10 | Periosteal Elevator, round edge, 6mm wide, L 200mm | 1 | |
| 11 | Periosteal Elevator, straight shaft, 14mm wide, L 200mm | 1 | |
| 12 | Hammer 500g, L 230mm | 1 | |
| 13 | Chisel Handle, L 185mm | 1 | |
| 14 | Chisel Blade, 10mm wide, thickness 0.9mm, L 81mm | 1 | |
| 15 | Chisel Blade, 16mm wide, thickness 0.9mm, L 81mm | 1 | |
| 16 | Chisel Blade, 25mm wide, thickness 0.9mm, L 81mm | 1 | |
| 17 | Gouge, curved, for cancellous bone graft harvest., 10mm wide, L 250mm | 1 | |
| 26 | Instrument Set for the Removal of Damaged Screws, in Aluminium Case Comprising of the following: | 1 Set | 12,000/- |
| 1 | Aluminium Case, white, small, perforated, without contents | 1 | |
| 2 | Tray, subdivided, without contents | 1 | |
| 3 | Tray for Instruments, without contents | 1 | |
| 4 | Hollow Reamer for 3.5/4.0mm Screws | 1 | |
| 5 | Spare Reamer Tube for 3.5/4.0mm Screws | 1 | |
| 6 | Extraction Bolt for 3.5/4.0mm Screws | 1 | |
| 7 | Extraction Screw, conical, for 2.7mm, 3.5mm and 4.0mm Screws | 1 | |
| 8 | Hollow Reamer for 4.5mm Screws | 1 | |
| 9 | Spare Reamer Tube for 4.5mm Screws | 1 | |
| 10 | Extraction Bolt for 4.5mm Screws | 1 | |
| 11 | Extraction Screw, conical, for 4.5/6.5mm Screws | 1 | |
| 12 | Hollow Reamer for 5.0/6.0/6.5/7.0mm Screws | 1 | |
| 13 | Spare Reamer Tube for 5.0/6.0/6.5/7.0mm Screws | 1 | |
| 14 | Extraction Bolt, for 5.0/6.0/6.5/7.0mm Screws | 1 | |
| 15 | Aluminium Plate, anodized | 1 | |
| 16 | Sharp Hook, L 155mm | 1 | |
| 17 | Forceps for Screw Removal, L 205mm | 1 | |
| 18 | Gouge, 10mm wide, L 205mm | 1 | |
| 19 | T-Handle with quick coupling, L 80mm | 1 | |
| 27 | Titanium Elastic Nail Instrument Set in Syncase Comprising of the following: | 1 Set | 12,000/- |
| 1 | Basic Tray, height 145mm, neutral | 1 | |
| 2 | Lid for no. 675.420 | 1 | |
| 3 | Tray, bottom, for Instruments for 675.420 | 1 | |
| 4 | Tray, middle, for Instruments for 675.420 | 1 | |
| 5 | Tray, top, for Implants for no. 675.420 | 1 | |
| 6 | Double Drill Sleeve 4.5/3.2 | 1 | |
| 7 | Drill Bit, 2.7mm dia., L 125/100mm 3-flute, for quick coupling | 1 | |
| 8 | Drill Bit, 3.2mm dia., L 195/170mm 3-flute, for quick coupling | 1 | |
| 9 | Drill Bit, 4.5mm dia., L 195/170mm 3-flute, for quick coupling | 1 | |
| 10 | Pin Wrench, 4.5mm, L 120mm | 1 | |
| 11 | Slotted Hammer 400g, detachable | 1 | |
| 12 | Spanner Wrench for nos. 357.180/357.181 | 1 | |
| 13 | Locking Pliers | 1 | |
| 14 | Tamp, straight | 1 | |
| 15 | Tamp, bevelled | 1 | |
| 16 | F-Tool | 1 | |
| 17 | Awl | 1 | |
| 18 | Extraction Pliers with thread for TEN | 1 | |
| 19 | Cutting Pliers for TEN | 1 | |
| 20 | Hammer Guide | 1 | |
| 21 | Inserter | 1 | |
| 28 | Pelvic C- Clamp complete set Comprising of the following: | 01 set | 5,000/- |
| 1 | VC f/Pelvic C-Clamp w/Lid w/o Contents | 1 | |
| 2 | Pelvic C-Clamp cpl | 1 | |
| 3 | Ratchet-Wrench f/Nut-hex 11 | 2 | |
| 4 | Socket-Wrench ø11 w/Hammer | 1 | |
| 5 | WireCutter large w/cantilever L220 | 1 | |
| 6 | Guide Handle f/K-Wire ø2.5 | 1 | |
| 7 | Nail f/Pelvic C-Clamp cann short L190 SS | 2 | |
| 8 | Nail f/Pelvic C-Clamp cann long L210 SSt | 2 | |
| 9 | Cap | 1 | |
| 10 | Pliers,flat nosed | 1 | |
| 29 | Instrument Set for Minimally Invasive Plate Osteosynthesis in Storage Case Comprising of the | 01 set | 14,000/- |

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| | following | | |
| | Collinear Reduction Clamp Instruments | | |
| 1 | Insert for Collinear Reduction Clamp | 1 | |
| 2 | Collinear Reduction Clamp (sliding mechanism) | 1 | |
| 3 | Hohmann-Shape Arm for CRC | 1 | |
| 4 | Pelvic Arm for CRC | 1 | |
| 5 | Percutaneous Arm for CRC | 1 | |
| 6 | Spiked Disc for Pelvic Reduction Forceps | 1 | |
| 7 | Lid for Vario Case | 1 | |
| | Reduction Handles, Large | | |
| 1 | Guide Wire, 1.6mm, L410mm | 4 | |
| 2 | Hexagonal Allen Key , 3.5mm | 1 | |
| 3 | Combination Wrench 11mm | 1 | |
| 4 | Reduction Handle, Toothed for 5mm threaded rod | 2 | |
| 5 | Reduction Handle, Rounded for 2.8mm Guide Wire | 2 | |
| 6 | Protection Sleeve, 11.0 Slotted | 1 | |
| 7 | Drill Sleeve, 11.0/2.8 | 1 | |
| 8 | Drill Sleeve, 5.0/1.6 | 1 | |
| 9 | Drill Sleeve, 11.0/5.0 | 1 | |
| 10 | Tap, 5.0/1.6, cannulated, self drill, L195m | 1 | |
| 11 | Adjusting Nut for threaded rod 5.0mm dia | 2 | |
| 12 | Threaded Rod, 5.0mm dia Self drill tip | 4 | |
| 13 | Threaded Rod, 5.0/1.6 dia blunt tip, cannulated | 2 | |
| 14 | Combination Clamp, Clip-on Self Holding | 2 | |
| 15 | Threaded K-Wire, 2.8mm Dia. Thread 5mm, Length 300mm | 4 | |
| 16 | 11.0mm Dia. Carbon Fibre Rod, Length 250mm | 1 | |
| 17 | 11.0mm Dia. Carbon Fibre Rod, Length 350mm | 1 | |
| | Reduction Handles, Small | | |
| 1 | Hexagonal Allen Key , 3.5mm | 1 | |
| 2 | Hexagonal Allen Key , 2.5mm | 1 | |
| 3 | Reduction Handle, Toothed For 3mm Threaded Rod | 2 | |
| 4 | Reduction Handle, rounded for 1.6mm Guide wire | 2 | |
| 5 | Protection Sleeve, 8.0 Slotted | 1 | |
| 6 | Drill Sleeve, 8.0/1.6 | 1 | |
| 7 | Drill Sleeve, 8.0/3.0 | 1 | |
| 8 | Adjusting Nut, for threaded rod 3.0mm dia. | 2 | |
| 9 | Threaded Rod, 3mm dia Self Drill tip | 4 | |
| 10 | Threaded Guide Wire 1.6 mm | 4 | |
| 11 | 8.0mm Carbon Fibre Rod 240mm Length | 1 | |
| 12 | Combination Clamp, Clip-on Self Holding, for 4.5mm screws | 2 | |
| 13 | Carbon Fibre Rod, 8mm L160mm | 1 | |
| | Plate Insertion Set | | |
| 1 | Hexagonal Allen Key , 3.5mm | 1 | |
| 2 | Combination Wrench, 8.0mm | 1 | |
| 3 | Combination Wrench 11mm | 1 | |
| 4 | Soft Tissue Retractor, Small Extendable | 1 | |
| 5 | Clamping Foot for LCP3.5 & LC-DCP | 1 | |
| 6 | Soft Tissue Retractor, Large Extendable | 1 | |
| 7 | Plate Holder for MIPO | 1 | |
| 8 | Clamping Foot for narrow LCP 4.5 & 5.0 | 1 | |
| 9 | Clamping Foot for broad LCP 4.5 & 5.0 | 1 | |
| 10 | Connecting Screw for Plate Holder | 1 | |
| 11 | Lid for Vario Case | 1 | |
| 12 | VC Framing size1/1 H45 | 1 | |
| 13 | Vario Case, MIPO Instruments 3 insert | 1 | |
| 30 | LCP Elbow System Instruments comprising of: | 01 set | 12,000/- |
| 1 | Vario Case for LCP Elbow Plate System, without Lid, without Contents | 1 | |
| 2 | Lid (Stainless steel), size 1/1, for Vario Case | 1 | |
| 3 | Screw rack for LCP screws Ø 2.7mm (head LCP 2.4) and Ø 3.5 mm, with Lid, without contents | 1 | |
| 4 | Kirschner Wire Ø 1.25 mm with trocar tip, length 150 mm, Stainless Steel | 10 | |
| 5 | Kirschner Wire Ø 1.6 mm with trocar tip, length 150 mm, Stainless Steel | 10 | |
| 6 | Extraction Screw for Screws Ø 3.5 mm | 1 | |
| 7 | Drill Bit Ø 2.5 mm, length 110/85 mm, 2-flute, for Quick Coupling | 1 | |
| 8 | LCP Drill Bit Ø 2.8 mm, length 165 mm, 2-flute, for Quick Coupling | 5 | |
| 9 | Drill Bit Ø 3.5 mm, length 110/85 mm, 2-flute, for Quick Coupling | 1 | |
| 10 | Handle with Quick Coupling | 1 | |
| 11 | Screwdriver Shaft, hexagonal, small, Ø 2.5 mm | 1 | |

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| 12 | Screwdriver, hexagonal, small, Ø 2.5 mm, with Groove | 1 | |
| 13 | Drill bit 1.8mm, length 100/75 mm , 2 flute, for Quick Coupling | 5 | |
| 14 | Drill bit 2.4mm, length 100/75mm, 2 flute, for Quick Coupling | 5 | |
| 15 | Drill bit 2.0mm, with double marking, length 140/115mm, 3 flute, for Quick Coupling | 5 | |
| 16 | LCP Drill Sleeve 2.7 (head LCP 2.4), with scale up to 60mm, for drill bits 2.0mm | 1 | |
| 17 | Universal Drill Guide 2.4 | 1 | |
| 18 | Depth Gauge for screws 2.0 and 2.4mm, measuring range up to 60mm | 1 | |
| 19 | Screwdriver shaft stardrive, T8,cylindrical , with groove,shaft 3.5mm, for AO/ASIF Quick Coupling | 1 | |
| 20 | Holding sleeve for LCP screws stardrive 2.4/2.7 (head LCP 2.4), T8, for screwdriver shaft 3.5mm | 1 | |
| 21 | Combined Holding sleeve for cortex screws stardrive 2.4/2.7mm, T8, for screwdriver shafts 3.5mm | 1 | |
| 22 | Depth Gauge for Screws Ø 2.7 to 4.0 mm, measuring range up to 60 mm | 1 | |
| 23 | Screw Forceps, self-holding | 1 | |
| 24 | LCP Drill Sleeve 3.5, for Drill Bits Ø 2.8 mm | 1 | |
| 25 | Centering Sleeve for Kirschner Wire Ø 1.6 mm, length 70 mm, | 1 | |
| 26 | Universal Drill Guide 3.5 | 1 | |
| 27 | Bending Iron for Plates 2.4 to 3.5, length 145 mm | 1 | |
| 28 | Bending Pliers for Plates 2.4 to 4.0, length 230 mm | 1 | |
| 29 | Handle for Torque Limiter | 1 | |
| 30 | Torque Limiter, 0.8 Nm, with AO/ASIF Quick Coupling | 1 | |
| 31 | Torque Limiter, 1.5 Nm, for AO/ASIF Quick Coupling | 1 | |
| 32 | Aiming Block, left, for Aiming Arm, for DHP | 1 | |
| 33 | Aiming Block, right, for Aiming Arm, for DHP | 1 | |
| 34 | Drill Sleeve 2.7, for Aiming Arm, for DHP | 1 | |
| 35 | Aiming Arm for DHP | 1 | |
| 36 | Insert for Drill Sleeve 2.7 | 1 | |
| 37 | Insert for Drill Sleeve 3.5 | 1 | |
| 38 | Drill Sleeve 3.5, for Aiming Arm, for DHP | 1 | |
| 39 | Insert for LCP Distal Humeral Plates in Vario Case™, without Contents | 1 | |
| 40 | Insert for LCP Olecranon and LCP-DMH Plates in Vario Case™ without Contents | 1 | |
| 41 | Kirschner Wire Ø 1.6 mm with trocar tip, length 150 mm, Stainless Steel | 1 | |
| 42 | Aiming device for LCP Olecranon Plate, right | 1 | |
| 43 | Aiming device for LCP Olecranon Plate, left | 1 | |
| 44 | Centering Sleeve 6.0/5.0, for PHILoS Aiming Device | 1 | |
| 45 | Drill Sleeve 5.0/2.9, for PHILoS Aiming Device | 1 | |
| 46 | Centering Sleeve for Kirschner Wire Ø 1.6 mm, length 70 mm, | 1 | |
| 47 | PHILoS Direct Measuring Device for Kirschner Wire Ø 1.6 mm | 1 | |
| 48 | Aiming device for LCP-Metaphyseal plate 3.5 for distal medial humerus | 1 | |
| 49 | LCP Drill Sleeve 3.5, for Drill Bits Ø 2.8 mm | 1 | |
| 31 | LCP Distal Radius Plates 2.4 Instruments in Graphic Case Comprising of: | 1 Set | 12,000/- |
| 1 | Drill Bit ø2.7 L100/75 2flute f/Quick-Co | 2 | |
| 2 | Drill Bit ø1.8 w/markings L110/85 2flute | 2 | |
| 3 | Drill Bit ø2.4 L100/75 2flute f/Quick-Co | 2 | |
| 4 | Drill Bit ø2 w/markings L110/85 2flute f/ | 2 | |
| 5 | Handle-large w/Quick-Coupl L155 | 1 | |
| 6 | ScrDriverShaft Stardr T8 self-hold | 1 | |
| 7 | Hold-Sleeve f/Scr Stardr ø2.4 T8 f/ScrDr | 1 | |
| 8 | Depth Gauge f/Scr ø2+2.4 meas-range up-t | 1 | |
| 9 | Depth Gauge f/Scr ø2.7-4 meas-range up-t | 1 | |
| 10 | LCP Drill Sleeve 2.4 w/Scale-30 f/Drill | 2 | |
| 11 | Univ-Drill-Guide 2.4 | 1 | |
| 12 | Univ-Drill-Guide 2.7 | 1 | |
| 13 | Pliers flat-nosed pointed f/PI 1-2.4 | 2 | |
| 14 | Termite-Forceps ratchet-lock L90 | 1 | |
| 15 | Reduc-Forceps w/Points softlock L126 | 1 | |
| 16 | Reduc-Forceps w/Points wide softlock L12 | 1 | |
| 17 | Bone-Lever small short narrow p w/6 L1 | 1 | |
| 18 | Periost-Elev slightly curv-blade straigh | 1 | |
| 19 | K-Wire ø1.25 w/trocar p L150 | 10 | |
| 20 | K-Wire ø1.6 w/trocar p L150 | 10 | |
| 21 | Torque Limiter 0.8Nm w/AO/ASIF-QC | 1 | |
| 22 | Novocase f/Lock-Dist-RadiusSyst 2.4 | 1 | |
| 32 | 3.5 mm Universal Locking Plate Instrument Set Comprising of the following: | 01 set | 10,000/- |
| 1 | Cleaning Stylet 1.6mm | 1 | |
| 2 | Cleaning Brush 1.6mm | 1 | |
| 3 | 3.5/2.7mm Plate Reduction Instrument | 1 | |
| 4 | 3.5/2.7mm Plate Reduction Sleeve | 1 | |

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| 5 | Reduction Spin Knob | 1 | |
| 6 | 2.7mm Standard Cannula | 2 | |
| 7 | Torque Limiting Attachment | 1 | |
| 8 | Cannula Inserter | 1 | |
| 9 | 3.5mm Locking Screw Tap, Q/C | 1 | |
| 10 | 2.5mm Hex Standard Screwdriver | 2 | |
| 11 | 2.7mm, Standard Drill | 2 | |
| 12 | Drill Bit, Q/C, 2.5mm Dia, 110mm | 2 | |
| 13 | Drill Bit, Q/C, 3.5mm Dia, 110mm | 2 | |
| 14 | 3.5mm/2.5mm Double Drill Sleeve | 1 | |
| 15 | Small Depth Gauge for 2.7/3.5/4.0 Screws to 60mm | 1 | |
| 16 | T-Handle, Q/C, Stainless Steel | 1 | |
| 17 | Tap, Q/C, for 3.5mm Screws, 110mm | 1 | |
| 18 | Q/C Cannulated Ratchet Handle | 1 | |
| 19 | Bending Iron, Left for 2.7mm and 3.5mm Plates | 1 | |
| 20 | Bending Iron, Right for 2.7mm and 3.5mm Plates | 1 | |
| 21 | 3.5/2.7mm ULS Compression Drill Guide | 1 | |
| 22 | 3.5mm ULS Instrument/Screw/Plate Case | 1 | |
| 23 | 2.7mm Drill Standard, Cannulated | 1 | |
| 24 | 1.6mm, Standard Cannula | 1 | |
| 25 | 3.5mm Cannulated Locking Screw Standard Depth Gauge | 1 | |
| 26 | 3.5mm Cannulated Locking Tap, Q/C | 1 | |
| 27 | 2.5mm Hex Cannulated Screwdriver | 1 | |
| 28 | 2.7mm, Standard Cannulated Drill AO | 1 | |
| 33 | Periarticular 5.5/4.5 mm Locking Plate Instrument Set with case Comprising of: | 1 Set | 11,000/- |
| 1 | Stylet 3.2mm | 1 | |
| 2 | Cleaning Brush 3.2mm | 1 | |
| 3 | 5.5/4.5 Locking Screw/Instrument Case | 1 | |
| 4 | 5.5/4.5mm Plate Reduction Instrument | 1 | |
| 5 | 5.5/4.5mm Plate Reduction Sleeve | 1 | |
| 6 | Plate Reduction Spin Knob | 1 | |
| 7 | 3.7mm, Standard Cannula | 4 | |
| 8 | 3.2mm, Standard Cannula | 2 | |
| 9 | 3.2mm, Standard Drill Tip Guide Wire (5 per Box) | 2 | |
| 10 | 4.5mm Locking Screw Standard Depth Gauge | 1 | |
| 11 | 5.5mm Cannulated Locking Screw Standard Depth Gauge | 1 | |
| 12 | 4.5mm Standard Locking Screw Tap | 2 | |
| 13 | 5.5mm Standard Cannulated Locking Screw Tap | 2 | |
| 14 | 5.5mm Screw Driver Stop Ring | 1 | |
| 15 | 4.7mm Standard Cannulated Drill | 2 | |
| 16 | Torque Limiting Attachment, Trinkle | 1 | |
| 17 | Guide Wire Inserter | 1 | |
| 18 | Cannula Inserter | 1 | |
| 19 | 5.5/4.5mm, Standard Jig Sleeve | 4 | |
| 20 | 5.0mm Hex Standard Driver Shs | 2 | |
| 21 | 5.0mm Hex Standard Cannulated Driver | 2 | |
| 22 | Trinkle Modular Handle | 1 | |
| 23 | 3.7mm, Standard Drill | 2 | |
| 24 | Large Hex Screwdriver, 3.5mm Hex | 1 | |
| 25 | Standard Jig Set Screw | 2 | |
| 26 | Distal Lateral Femoral Plate Jig, Right | 1 | |
| 27 | Distal Lateral Femoral Plate Jig, Left | 1 | |
| 34 | LCP 4.5 Instrument Set Comprising of: | 1 Set | 11,000/- |
| 1 | Basic Case for LCP 4.5/5.0 Instruments | 1 | |
| 2 | Case for LCP 4.5/5.0 Bending Instruments | 1 | |
| 3 | Case for additional LCP 3.5 & 4.5/5.0 Instruments | 1 | |
| 4 | Lid For CASE for LCP 4.5/5.0 Instruments | 1 | |
| 5 | Screwdriver Shaft 3.5, self-retaining, L 110mm | 1 | |
| 6 | Torque-Limiting Screwdriver, for LISS Screws | 1 | |
| 7 | Drill Bit, 4.3mm dia., L 221mm | 5 | |
| 8 | Threaded LCP Drill Guide, for 4.3mm Drill Bit | 2 | |
| 9 | Universal Drill Sleeve LCP 4.5/5.0 | 1 | |
| 10 | Screw Holding Sleeve for LCP 4.5/5.0 | 1 | |
| 11 | Extraction Screw, conical, for 4.5/6.5mm Screws | 1 | |
| 12 | Drill Bit, 3.5mm dia, for metal | 2 | |
| 13 | LCP Bending Iron for Reconstruction Plates | 2 | |
| 35 | Universal Humeral Nail (UHN/PHN) Instrument Set in Case Comprising of: | 1 Set | 15,000/- |

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| 1 | Kirschner Wire, 2.5mm dia., with trocar tip, L 280mm | 2 | |
| 2 | Threaded Guide Wire, 2.0mm dia., with trocar tip, L 230mm | 2 | |
| 3 | Drill Bit, 4.5mm dia., L 147/120mm for quick coupling | 1 | |
| 4 | Double Drill Sleeve 4.5/3.2 | 1 | |
| 5 | Holding Sleeve | 1 | |
| 6 | Screwdriver, hexagonal, large, with groove, L 240mm | 1 | |
| 7 | Holding Sleeve, large, L 120mm | 1 | |
| 8 | Screwdriver, hexagonal, small, L 270mm | 1 | |
| 9 | Drill Bit, 3.2mm dia., L 210/185mm calibrated, for quick coupling | 2 | |
| 10 | Depth Gauge for 2.7mm to 4.0mm Screws | 1 | |
| 11 | Screw Forceps, self-retaining, L 85mm | 1 | |
| 12 | Combination Wrench, 11mm, L 140mm | 1 | |
| 13 | Slotted Hammer L 270mm | 1 | |
| 14 | Awl with T-Handle, cannulated, straight, L 190mm | 1 | |
| 15 | Depth Gauge for Locking Bolts | 1 | |
| 16 | Hand Reamer, 6.0mm dia., for predrilling in pseudarthroses | 1 | |
| 17 | Hand Reamer, 7.0mm dia., for predrilling in pseudarthroses | 1 | |
| 18 | Driving Head | 1 | |
| 19 | Protection Sleeve 11.0/8.0, L 96mm | 1 | |
| 20 | Drill Sleeve 8.0/3.2, blue, L 110mm | 1 | |
| 21 | Trocar 8.0mm dia., L 110mm | 1 | |
| 22 | Impactor/Extractor for UTN and UHN, L 250mm | 1 | |
| 23 | Connecting Screw for UHN, L 105mm | 1 | |
| 24 | Radiographic Ruler for UHN, L 340mm | 1 | |
| 25 | Compression Device, L 52mm, for UHN | 1 | |
| 26 | Compression Connecting Screw, L 165mm | 1 | |
| 27 | Insertion Guide Attachment for Spiral Blade Locking, | 1 | |
| 28 | Projectile Reamer, 10mm dia., L 130mm, for quick coupling | 1 | |
| 29 | Trocar, 2.0mm dia. | 1 | |
| 30 | Protection Sleeve 14.0/4.5 | 1 | |
| 31 | Aiming Arm for Standard Locking | 1 | |
| 32 | Drill Bit, 4.5mm dia., cannulated | 1 | |
| 33 | Insertion Handle for UHN/PHN | 1 | |
| 34 | Drill Sleeve 4.5/2.0 | 1 | |
| 35 | Insertor for Spiral Blade UHN/PHN | 1 | |
| 36 | Connecting Screw for Spiral Blade UHN/PHN | 1 | |
| 37 | Measuring Device for Spiral Blade UHN/PHN | 1 | |
| 38 | Coupling Block for UHN extraction | 1 | |
| 39 | Drill Sleeve 8.0/2.7 | 1 | |
| 40 | Drill Bit, 2.7mm dia., calibrated, 3-flute, for quick coupling | 2 | |
| 41 | Tray, bottom, for Humeral Nail Instruments | 1 | |
| 42 | Tray, top, for Humeral Nail Instruments | 1 | |
| 43 | Lid for Tray | 1 | |
| 36 | Supracondylar Nailing System in Storage Case Comprising of: | 1 Set | 10,000/- |
| 1 | Aluminium Case, large, 2-part for Instrument Set | 1 | |
| 2 | S.S Tray 1 for Instrument Set | 1 | |
| 3 | S.S Tray 2 for Instrument Set | 1 | |
| 4 | Hex Screwdriver 3.5mm with Sleeve, complete instr (Shaft, Sleeve and O Ring) | 1 | |
| 6 | Diamond Pointed Awl | 1 | |
| 7 | Starter Awl for Intercondylar Notch Entry Point | 1 | |
| 8 | Awl | 1 | |
| 9 | Reduction Guide | 1 | |
| 10 | Impactor for Wing Insertion - Femur | 1 | |
| 11 | Impactor for Wing Insertion - Tibia | 1 | |
| 12 | Drill Bit Q.C dia 3.5mm, length 220mm | 1 | |
| 13 | Drill Bit Q.C dia 4.5mm, length 220mm | 1 | |
| 14 | Drill Bit Q.C dia 5.5mm, length 220mm | 1 | |
| 15 | Drill Guide, 3.5mm for Supracondylar nails | 1 | |
| 16 | Drill Guide 4.5mm for Supracondylar nails | 1 | |
| 17 | Drill Guide 5.5mm for Supracondylar nails | 1 | |
| 1 | Aluminium Case, large, 2-part for Instrument Set | 1 | |
| 2 | S.S Tray 1 for Instrument Set | 1 | |
| 3 | S.S Tray 2 for Instrument Set | 1 | |
| 4 | Hex Screwdriver 3.5mm with Sleeve, complete instr (Shaft, Sleeve and O Ring) | 1 | |
| 6 | Diamond Pointed Awl | 1 | |
| 7 | Starter Awl for Intercondylar Notch Entry Point | 1 | |
| 8 | Awl | 1 | |

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| 9 | Reduction Guide | 1 | |
| 10 | Impactor for Wing Insertion - Femur | 1 | |
| 11 | Impactor for Wing Insertion - Tibia | 1 | |
| 12 | Drill Bit Q.C dia 3.5mm, length 220mm | 1 | |
| 13 | Drill Bit Q.C dia 4.5mm, length 220mm | 1 | |
| 14 | Drill Bit Q.C dia 5.5mm, length 220mm | 1 | |
| 15 | Drill Guide, 3.5mm for Supracondylar nails | 1 | |
| 16 | Drill Guide 4.5mm for Supracondylar nails | 1 | |
| 17 | Drill Guide 5.5mm for Supracondylar nails | 1 | |
| 18 | Drill Sleeve Assembly, Long, for Supracondylar Nails comprising of following: | 1 set | |
| a | Trocar long, dia 3.5mm | 1 | |
| b | Inner Sleeve long, dia 5.5mm x 3.5mm | 1 | |
| c | Outer Sleeve long, dia 9.0mm x 5.5mm | 1 | |
| 19 | Drill Sleeve Assembly, Short, for Supracondylar Nails comprising of following | 1 set | |
| a | Trocar short, dia 3.5mm | 1 | |
| b | Inner Sleeve short, dia 5.5mm x 3.5mm | 1 | |
| c | Outer Sleeve short, dia 9.0mm x 5.5mm | 1 | |
| d | Depth Gauge Assembly | 1 | |
| 20 | Supracondylar Jig-cum-Nail Impactor, complete comprising of the following: | 1 set | |
| a | Supracondylar Jig-cum-Nail Impactor, main body | 1 | |
| b | Guide Bar, Supracondylar | 1 | |
| c | Locking Bolt for Guide Bar, Supracondylar | 1 | |
| d | Nail locking bolt, Supracondylar | 1 | |
| e | Driver for Jig assembly, Supracondylar | 1 | |
| f | SSA washer for nail locking bolt | 1 | |
| g | SSA washer for Jig main body | 1 | |
| 21 | Double Ended Spanner (A/f 15mm / 10mm) | 1 | |
| 22 | Nail Impaction/Extraction Assembly, cannulated, complete comprising of: | 1 set | |
| a | Cannulated Central Guide Rod for Nail Impaction / Extraction | 1 | |
| b | InLine Impaction / Extraction Ram | 1 | |
| 23 | External Nail Extraction Device | 1 | |
| 24 | Guide Wire Holder, self-locking | 1 | |
| 25 | Tissue Protector | 1 | |
| 26 | Exchange tube for Nailing | 1 | |
| 27 | Socket Wrench with Universal Joint, 15mm A/F | 1 | |
| 37 | Interlocking Nail Instruments in Stainless Steel Box Comprising of: | 1 Set | 10,000/- |
| 1 | Pin Wrench, 4.5mm, L 120mm | 1 | |
| 2 | Tissue Protector, L 140mm | 1 | |
| 3 | Awl, small, L 210mm | 1 | |
| 4 | Holding Forceps for Reaming Rod 2.5mm | 1 | |
| 5 | Reduction Head, displacement 2.5mm | 1 | |
| 6 | Reamer Head, 12.5mm dia. | 1 | |
| 7 | Socket Wrench 11mm, cannulated, L 180mm | 1 | |
| 8 | Driving Piece, curved, L 120mm | 1 | |
| 9 | Driving Head | 1 | |
| 10 | Guide Rod, cannulated, L 455mm | 1 | |
| 11 | Ram | 1 | |
| 12 | Grip, flexible, L 170mm | 1 | |
| 13 | Insertion Handle, for Tibial Nails 9.0 to 14.0mm dia. | 1 | |
| 14 | Threaded Bolt, conical, for Tibial Nails 9.0 to 14.0mm dia. | 1 | |
| 15 | Knurled Nut for Tibial Nails 9.0 to 14.0mm dia. | 1 | |
| 16 | Insertion Handle, for Femoral Nails 9.0 to 12.0mm dia. | 1 | |
| 17 | Threaded Bolt, conical, for Femoral Nails 9.0 to 12.0mm dia. | 1 | |
| 18 | Knurled Nut for Femoral Nails, 9.0 to 12.0mm dia. | 1 | |
| 19 | Distal Aiming Device, L 240mm | 1 | |
| 20 | Protection Sleeve 11.0/8.0, L 96mm | 1 | |
| 21 | Drill Sleeve 8.0/4.5 | 1 | |
| 22 | Insert Drill Sleeve 3.2 | 1 | |
| 23 | Trocar 8.0mm dia., L 110mm | 1 | |
| 24 | Depth Gauge for Locking Bolts | 1 | |
| 25 | Drill Bit, 4.0/4.5mm dia., L 225/200mm, for quick coupling | 2 | |
| 26 | Stainless Steel Box | 1 | |
| 38 | Compression Femoral Neck Fixation Instrument Set Comprising of: | 1 Set | 10,000/- |
| 1 | Depth Gauge | 1 | |
| 2 | Combination Reamer Shaft | 1 | |
| 3 | Short Reamer Head | 1 | |
| 4 | Standard Reamer Head | 1 | |

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| 5 | Cannulated Bone Tap | 1 | |
| 6 | Impactor | 1 | |
| 7 | T-Jandle | 1 | |
| 8 | Lag Screw Extractor | 1 | |
| 9 | Adjustable Double Pin Guide | 1 | |
| 10 | Linked Lag Screw Inserter | 1 | |
| 11 | Cann Bone Tap, Large for Use with 1193-5-01/02 | 1 | |
| 12 | 90 Deg Guide Pin Template | 1 | |
| 13 | 95 Deg Guide Pin Template | 1 | |
| 14 | Instrument Case | 1 | |
| 15 | Pin Relocator | 1 | |
| 16 | Straight Shank Drill Bit 6.4mm Dia x 203mm | 1 | |
| 17 | Drill Bit, Q/C, 3.2mm Dia, 145mm | 2 | |
| 18 | 4.5mm/3.2mm Double Drill Sleeve | 1 | |
| 19 | 4.5mm Compression Drill Guide | 1 | |
| 20 | 6.5mm/3.2mm Double Drill Sleeve | 1 | |
| 21 | Basic Depth Gauge for 4.5/6.5 Screws to 120mm | 1 | |
| 22 | T-Handle, Q/C, Stainless Steel | 1 | |
| 23 | Tap, Q/C, for 4.5mm Screws, 125mm | 2 | |
| 24 | Tap, Q/C, for 6.5mm Screws, 196mm | 1 | |
| 25 | Self-Holding Screw Forceps, for 3.5mm-6.5mm Screws | 1 | |
| 26 | Large Hex Screwdriver, 3.5mm Hex | 1 | |
| 27 | Large Hex Screwdriver Shaft, with Q/C, 3.5mm Hex, 100mm | 1 | |
| 28 | Sharp Hook | 1 | |
| 39 | Closed Locking Nailing Instrument Set for Femur and Tibia with Case Comprising of the following: | 1 Set | 15,000/- |
| 1 | Awl 10 mm, cannulated | 1 | |
| 2 | Targeting device for tibia | 1 | |
| 3 | Connection screw for Targeting device | 1 | |
| 4 | Targeting arm 45° for tibia | 1 | |
| 5 | Tissue protection sleeve dia 10/8mm | 1 | |
| 6 | Trocar dia 8 mm | 1 | |
| 7 | Drill guide dia 8.0 / 4.0mm | 1 | |
| 8 | Three-flut drill bit dia 4.0 mm, L:355 mm | 1 | |
| 9 | Large hex. Screwdriver, 3.5mm, L:340 mm,dia 2.2mm can | 1 | |
| 10 | Tissue protection sleeve dia 10 mm | 1 | |
| 11 | Cleaning wire dia 2 mm, L:465mm | 1 | |
| 12 | Awl 13mm, cannulated | 1 | |
| 13 | Targeting device for femur | 1 | |
| 14 | Targeting modul for cervical screws | 1 | |
| 15 | Screw for targeting modul | 1 | |
| 16 | Positioning guide for cervical screws | 1 | |
| 17 | Drill guide dia 8.0 / 2.0mm | 1 | |
| 18 | Guide wire dia 2.0 x 440 mm with threaded tip for cervical screws | 1 | |
| 19 | Measuring device for cervical screws | 1 | |
| 20 | Step reamer dia 6.5 / 4.5 mm cannulated, for cervical screws | 1 | |
| 21 | Drill bit dia 13 mm with flexible shaft | 1 | |
| 22 | Tissue protection sleeve dia 13 mm | 1 | |
| 23 | Guide wire dia 3 x 365 mm with threaded tip | 1 | |
| 24 | Guide wire dia 3 x 950 | 1 | |
| 25 | Measuring device | 1 | |
| 26 | Ram guide | 1 | |
| 27 | Driving head | 1 | |
| 28 | Measuring device for locking screws | 1 | |
| 29 | Ratchet wrench 11 mm | 1 | |
| 30 | Guide wire dia 2 x 300 mm for cap screws | 1 | |
| 31 | Tissue protection sleeve dia 12 mm for tibia | 1 | |
| 32 | Chuck 1.6 - 2.4 mm | 1 | |
| 33 | Graphic case for nailing instruments | 1 | |
| 34 | Insert for Femur | 1 | |
| 35 | Insert for Tibia empty | 1 | |
| 36 | Drill bit dia 3.2 mm with plastic connection | 1 | |
| 37 | Drill bit dia 4.2 mm with plastic connection | 1 | |
| 38 | Universal chuck with T-handle, cannulated | 1 | |
| 39 | Combination wrench hexagon 11mm, L:140mm | 1 | |
| 40 | Self-holding screw forceps | 1 | |
| 41 | Ram | 1 | |
| 42 | Graphic case for locking screws | 1 | |

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| | 43 | Insert for cervical screws | 1 | |
| 40 | | Retrograde Nailing Instrument Set for Femur with case Comprising of the following | 1 Set | 10,000/- |
| | 1 | MALLET 3LB | 1 | |
| | 2 | THREADED DRIVER | 1 | |
| | 3 | THREADED EXTRACTOR | 2 | |
| | 4 | T-HANDLE RATCHET SCR | 1 | |
| | 5 | LOCKING BOLT WRENCH | 1 | |
| | 6 | SCREW DEPTH GUAGE | 1 | |
| | 7 | T-HANDLE HXHD SCREWD | 1 | |
| | 8 | PROXIMAL BUSHING 5.0 | 1 | |
| | 9 | PROXIMAL BUSHING 8.0 | 1 | |
| | 10 | PILOT TIP PROX STOP DRILL | 1 | |
| | 11 | DISTAL TROCAR 3.2MM | 1 | |
| | 12 | DISTAL TROCAR 5.0MM | 2 | |
| | 13 | DISTAL SCREWDRIVER 3 | 1 | |
| | 14 | DISTAL INSERT | 1 | |
| | 15 | SET SCREW | 1 | |
| | 16 | HANDLE | 1 | |
| | 17 | BUSHING INSERT | 1 | |
| | 18 | PILOT TIP DISTAL DRILL 3. | 1 | |
| | 19 | PILOT TIP DISTAL DRILL 5. | 1 | |
| | 20 | WIRE GRIP T-HANDLE | 1 | |
| | 21 | RULER | 1 | |
| | 22 | FEMORAL AWL, 7MM | 1 | |
| | 23 | R-F TARGETING GUIDE | 1 | |
| | 24 | ADJUSTABLE TARGET ARM | 1 | |
| | 25 | NUT COUNTERBORE | 1 | |
| | 26 | CORTICAL NUT SCREWDR | 1 | |
| | 27 | R-T BUSHING 3.7MM | 2 | |
| | 28 | R-T BUSHING 5.0MM | 2 | |
| | 29 | GUIDE PIN 3.2MM DIA X 304 | 1 | |
| | 30 | LOCKING BOLT | 1 | |
| | 31 | FEM SCREW BUSHING 8M | 2 | |
| | 32 | 9/16 IN PIN WRENCH | 1 | |
| | 34 | STAINLESS STEEL BOX | 1 | |