

BIDDING DOCUMENTS

CIVIL HOSPITAL KARACHI

HEALTH DEPARTMENT

GOVERNMENT OF SINDH

Contract NO:- PD-Trauma Centre-CHK/030 (Rev) 2014-15

**Supplying, Installation, Testing, Commissioning & Maintenance
(during maintenance period) of
Surgical Hand Instruments Sets for Operation Theatres
of the project “Shaheed Mohtarma Benazir Bhutto Accident,
Emergency & Trauma Centre and Ancillary Services Complex at
Civil Hospital Karachi”**

VOLUME-I

**INSTRUCTIONS TO BIDDERS, SALIENT FEATURES
/ TERMS & CONDITION OF THE TENDER,
ESSENTIAL REQUIREMENTS / EVALUATION
CRITERIA, FORM OF AGREEMENT, SCOPE OF
WORK AND SPECIFICATIONS**

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INSTRUCTIONS TO BIDDERS

1. **Civil Hospital Karachi** invites sealed bids on single stage two envelopes system as per Sindh Public Procurement Rules 2010 from Manufacturers/Importers/Sole Agents/Contractors for “*Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of Surgical Hand Instruments Sets for Operation Theatres of the project Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi*”, (Contract No. **PD-Trauma Centre-CHK/030 (Rev) (2014-15)**).
2. Bidders are required to check that Tender Documents issued to them are complete in all respects as per Summary of contents related to Instructions to Bidders, Salient Features, Evaluation Criteria, Form of Tender, Form of Agreement, Specifications (Technical), Scope of Work, Drawings etc.
3. Bidders should examine carefully the Summary of Contents. They should visit and inspect the site at their own expense and responsibility and obtain all necessary information prior to submitting the Tender. Any detail/specification missing in the document should be obtained from the office of the Project Director before bidding. Once the Tender is submitted, it will be assumed that no further clarification was required.
4. The rates to be inserted in the Bill of Quantities shall be deemed to include all costs of whatsoever description and expenses necessary for the Supply, Installation, Testing, Commissioning and Maintenance of the Equipment/system together with all risks, taxes, liabilities and obligations, specific or implied, in the Tender Documents. Arithmetical errors, if any shall be corrected and Tender price amended accordingly.
5. No authorized alteration may be made in the Tender documents. If any such alteration is made, tender may be liable for rejection.
6. Any clarification, revision, addition or deletion, in the Tender documents may be made by the Project Director before the submission and opening of Tender in the form of Addendum/Corrigendum. This will be made only by formal Addendum/Corrigendum issued by the Project Director and will become part of the Contract documents. Each Addendum shall be signed by the Tenderer and returned with other Tender documents.
7. The entire Tender Documents, listed duly priced, signed & stamped on each page and completed must reach at designated place in due time and dates as defined in the salient features of the Tender.
8. The Contractors whose Tender is accepted, by the Procurement Committee, will be required to enter into a Contract agreement as defined in the Form of Agreement.
9. All manufactured and other items should be used in the work in accordance with the instructions, specifications in the Tender Document and also in accordance with generally accepted norms of good workmanship.

10. The Tender documents referred to above constitute a part of this Tender and comprise of the following documents:
 - a) Instructions to bidders.
 - b) Salient Features / Terms & Condition of the Tender
Questionnaire / Proforma – Evaluation Criteria.
 - c) Form of Agreement.
 - d) Scope of work / Bill of Quantities / Specification (Technical).
 - e) The Addendum (if any).
 - f) The Drawings (if any).

11. The Contractors are required to submit the site Organization chart, methodology & work schedule along with Tender documents.

SALIENT FEATURES / TERMS & CONDITION OF THE TENDER

1.	Name of Work & Address	:	Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of Surgical Hand Instruments Sets for Operation Theatres of the project “Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi” (Contract No. PD-Trauma Centre-CHK/030 (Rev) 2014-15)
2	Time & Date of issue of Tenders	:	From the date of publishing to one day before opening of Technical Proposal, during office hours.
3	Place of Issuance of Tender	:	Office of the Project Director, OPD-Block Civil Hospital Karachi.
4	Date of pre-bid meeting	:	In case requested by bidders or informed by Project Director.
5	Method of opening of Tender	:	It will be Single Stage Two Envelope system as per SPPRA-Rules 2010.
6	Date & Time of Submission of Tenders	:	As published in newspapers
7	Date & Time of Opening of Tenders / Technical Proposals	:	As published in newspapers
8	Date of Opening of Financial Proposals	:	As informed by Project Director to all participants
9	Venue of submission & opening of Tenders	:	Board Room situated at Second Floor of the Administration Block of Civil Hospital Karachi.
10.	Validity of Tenders	:	As per SPPRA-Rules 2010.
11.	Amount of Earnest Money/Bid Security	:	1% of the Contract value in shape of pay-order / Call Deposit from schedule Bank to be submitted along with Financial Proposal.
12.	Supply of Equipment	:	Within three months after the opening of LC. However, this period is extendable as per mutual agreement/demand of the situation.
13.	Installation Period	:	It will start after three months of receiving of equipment at site.
14	Maintenance Period	:	It will start after the satisfactory installation of the equipment and issuance of Installation Certificate from the concerned official. This period will remain functional till two years with replacement of parts.
15	Warranty Period with replacement of Parts and services	:	The warranty period of Instruments with Free of cost replacement should be of two years (local) by manufacturer.
16 a)	Contract Agreement	:	The Contract shall enter & execute a formal Agreement as per the “Form” annexed with such modification as may be necessary, by the Project Director.
b)	Stamp Paper requirement for Agreement.	:	Rs. 0.30% of the Contract Value or as prescribed by Government Laws.

17	Terms of Payment to Contractors.	
(i)	Payment to Contractors on opening of L.C (Letter of Credit) by Contractor.	: In case items are imported and supply order is placed on C&F basis, L.C. (Letter of Credit) will be opened by Contractors whom Purchase order is awarded, in the name of Medical Superintendent – Civil Hospital Karachi as Consignee. Contractors opening the LC with the Principals of Country of Origin will be paid 80% amount of the confirmed L.C. The L.C should be opened within thirty days after receiving of the supply order from the Project Director. PLEASE NOTE THAT THE L.C ON TRANSHIPMENT BASIS IS NOT ACCEPTABLE
(ii)	Payment of balance amount	: All balance payments will be released after receiving of equipment at site and issuance of Performance Certificate from Hospital Authorities.
18	Release of Earnest Money/Bid Security of 2%	: To un-successful bidders, after work is awarded. Earnest Money will be released to successful bidder after purchase order is released but after 5% Security Deposit is deposited as per item – 19.
19	Security Deposit	: 5% Security Deposit in the shape of two pay orders (2.5% each) will be submitted by Contractor with Project Director which will be released as under:- a. 2.5% after three months of the satisfactory performance certificate as per Item 17(ii). b. 2.5% after six months of the satisfactory performance certificate as per Item 17(ii). Bank Guarantee of equal amount will also be acceptable.
20	Release of Security Deposit of 5%	: After completion of maintenance or Defect Liability period of two years as under:- • After satisfactory completion of maintenance period of Six Months – 2.5% • After satisfactory completion of maintenance period of two years – 2.5%
21	VARIATION IN CONTRACT PRICE.	: NO VARIATION IN PRICE SHALL BE ALLOWED ON ANY GROUND INCLUDING CURRENCY FLUCTUATION/VARIATION OR WHATSOEVER.
22	Discrepancy.	: If there is any discrepancy between Salient Features of Tender/Bidding Documents and respective contents mentioned elsewhere, Salient Features / Terms & Conditions and Additional Terms & Conditions of Tender will govern.
23	Taxes.	: All taxes will be deducted as per prevalent laws of country.
24	Approved makes.	: As mentioned in items individually.
25	SPECIAL NOTE REGARDING EQUIPMENTS	: TECHNICAL OFFERS / COMMERCIAL OFFERS FAILING TO DEMONSTRATE BELOW DETAILS WOULD BE REJECTED: a. QUOTED SYSTEM MUST BE OF ADVANCED & LATEST VERSION. b. TENDER MUST COVER COMPLETE EQUIPMENT. c. QUOTATION MUST COVER COMPLETE RANGE OF DISPOSABLES / KITS

		<p>d. QUOTATION MUST PROVIDE ALL TECHNICAL DETAILS UPTO THE SATISFACTION OF THE END USER.</p> <p>e. ITEMS SHOULD BE QUALITY APPROVED FROM THE CONCERNED INTERNATIONAL BODY OF THE RESPECTIVE INDUSTRY.</p>
26	Inspection of Imported equipment manufacturing site by the client.	: After the award of Purchase Order, Supplier shall take two persons to the manufacturing site and bear all expenses of visit in case the cost of Supply Order is 50 million or above.
(a)		
(b)	Training	: Supplier will provide on-site successful training to all the personnel working on/operating the said Equipment/machine as long as the need prevail.
27	Maintenance.	: Maintenance cost for all Equipments for Two years from date of successful Installation shall be undertaken by the Contractor (Maintenance includes all Parts & Labour, etc. with sufficient staff, during maintenance period).
28	Default in Preventive Maintenance, Breakdown and Emergency Calls.	: <ul style="list-style-type: none"> • In case of default by the Contractor with respect to maintenance, break down and emergency calls, the same will be carried out within 24 hours by Department and the cost so incurred will be paid from the Retention Money. • Moreover a 10% of the amount spent would be charged from the concerned contractor.
29	COST TO BE QUOTED IN BOQ.	: <ul style="list-style-type: none"> • The Contractors shall quote Both DDP and C&F price of the Equipments including custom clearance etc. and delivering of Equipment at site with Installation & Commissioning cost. • It should also include cost during maintenance period including the parts and maintenance staff.
30	Tax Exemption.	: <ul style="list-style-type: none"> • In case of purchase on C & F basis, the required certificate will be issued by this office that the import has been made for this hospital, so as to avail the facility of exemption of duties/taxes, as per Government Rules/Policy according to the SPPRA – 2010. • Tax Exemption letter will be provided by the Hospital Authorities. However all duties and taxes will be responsibility of the vendors.

GENERAL CONDITIONS

Note: No tender will be accepted after closing of the Tender box, whatsoever reason may be.

1. As the building is under construction and finishing is underway, the Contractors responsible for “Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of **Surgical Hand Instruments Sets for Operation Theatres**” will also repair all the damages done to the building while Installing Information Technology Equipments at no extra-cost. So the Contactors should take into account all such expenditures while quoting the bid.
2. In **Technical Bid**, the bidder must provide original data sheet, technical brochure, all other relevant documents, alongwith copy of Pay Order / Bank Draft without showing the amount figure otherwise, the bid will be ignored/rejected. The technical evaluation will be done on the basis of criteria given in tender document.
3. A Column is given against the specification of each item, the vendor has to fill up with YES / NO or put value as desired in the column. These specifications must be highlighted in the brochure, else the offer will be rejected.
4. In **Financial Bid**, the vendor should mention financial offer alongwith Pay Order / Bank Draft 2% value of quoted items in favor of Project Director.
5. **In case of purchase on C&F Basis, the bidder will invest money to open Letter of Credit within thirty days after receiving the supply order and will bear all the charges in this regard. The required certificate will be issued by this hospital that the import has been made for this hospital, so as to avail the facility of exemption of duties / taxes, as per Government Rules / Policy according to the SPPRA-2010.**
6. **In case of supply order placed on DDP Basis the bidder should be supplied the quoted item within time as specified in Tender Document i.e. three months. This period is extendable as per mutual agreement/demand of situation.**
7. The disclosure of firm’s price at the time of opening of **Technical bid** will result in the rejection of the bid.
8. No tender will be entertained without earnest money. The earnest money will be forfeited to Government Treasury, in case of non-submission of security money within seven (7) days of receipt of the offer letter.
9. **Only Manufacturer and / or Authorized Agent (if importer) can quote items.**
10. First scrutiny of **Technical Bids** will be performed by the Procurement Committee. Financial Bids of only those firms will be opened who are qualified technically.
11. Certificate from the Sole Agent / Manufacturer has fully equipped Workshop Trained Personnel / Engineers and Equipment should be provided with technical bid and it can be physically verified by the administration of Civil Hospital Karachi.
12. The warranty period will commence from the date of installation of the Equipment at SMBB Trauma Centre - Civil Hospital Karachi.
13. Firm must provide complete details of their financial standing, listing of similar items supplied in Pakistan, bio-data of engineers with training certificates / test, details of local stock of spare parts for similar furniture and details of office with number of personals.
14. The vendor has to quote only one rate for each item as per tender specifications. Hand written tenders or any over writing, cutting, should be signed.
15. **Vendors should quote the items they intend to supply.**
16. The bidder shall submit with the bid, an **UNDERTAKING** on Non-Judicial stamp paper of Rs. 50/- duly attested by Oath Commissioner, stating that the medical equipment will be supplied brand new, free from defects as per the approved sample and will bind himself for availability of spares for a period of 10 years from the date of

- supply. In case of winding up of his business, the supplier shall be bound to make an alternate arrangement of spares and maintenance of medical equipment. In case of default, depreciated cost of medical equipment will be recoverable from vendor.
17. If it has been found that the information submitted by the bidder regarding his qualification and professional, technical, financial, legal or managerial competence as supplier / contractor is / was false and materially inaccurate or incomplete at any stage, then the bidder will be disqualified.
 18. Suppliers / Contractors will be responsible for supply at consignee end, free of cost and also responsible for free installation work, if required.
 19. Equipments will be handed over to the Project Director / Store officer of Civil Hospital Karachi.
 20. Price escalation will not be allowed.
 21. If vendor doesn't supply medical equipment in accordance with the supply order or fails to supply according to terms and conditions or in case of any other default, the Performance Security and Security Deposit would be forfeited and further action as per SPPRA rule would be taken against such vendor.
 22. If the supplier fails to give supply and install within the stipulated period, Liquidated charges will be imposed.
 23. The decision once taken will be final and will not be challenged in any Court of Law.
 24. **The bidder should be registered with Sindh Revenue Board (attached copy of registration)**
 25. A copy of Income Tax and GST Registration Certificate should be attached alongwith **Technical Bid.**
 26. Conditional Tender(s) against the Government rules and non-compliance of instructions mentioned in Tender Form & Hand written tender(s) will not be entertained.
 27. **The vendor should submit a Data Sheet according to the Tender Specifications Format mentioned in the tender and highlight the tender specifications in their Technical Data Sheet. Additional Features can be mentioned separately.**
 28. In case the information supplied by bidder in Questionnaire / Proforma is incomplete or incorrect, the Tender will be liable for rejection.
 29. The Medical Superintendent – Civil Hospital Karachi / Procurement Committee reserves the right to reject or accept any / all tender(s) as per SPPR-2010.
 30. The offer will remain valid as per SPPRA -2010.
 31. **Criteria for Evaluation of Bid.**
 - a. Specifications compliance.
 - b. After sale service facility.
 - c. Authority letter from Manufacturer.
 - d. Guaranty of Availability of parts of the supply articles for 10 years.
 - e. Compliance of Terms & Conditions and Additional Terms & Condition of the Bid Form.
 - f. **Copy of registration certificate with Sindh Board of Revenue**

I / We agreed above mentioned terms & conditions:

Name of Contractor _____ Signature _____
 (CNIC NO _____ (Copy must be attached).)
 Full Address _____

Rubber Stamp _____

QUESTIONNAIRE / PROFORMA

(To be filled in by the vendor)

1. Name of institutions where the same items supplied with performance report
 - In Pakistan _____
 - In Karachi _____
2. Factory address _____
3. No. of Employees _____
- 4. In case of manufacturer** **Yes** **No**
 - a. Registration with EOBI (Govt. of Pakistan) ---- ----
 - b. Registration with Social Security (Provincial Government) ---- ----
 - c. National Income Tax (Income Tax Department) ---- ----
 - d. Sales Tax Registration ---- ----

(Copies must be attached duly attested)
5. Spare parts Availability Guarantee (No. of years): _____
6. Medical Equipment life period (number of years) _____
7. On call service charges (After expiry of maintenance period):
 - Minimum: _____
 - Per day: _____
8. In case of in house maintenance by Civil Hospital Karachi are you willing to provide following during post warranty period **Yes** **No**
 - Back up engineer support whenever requested: ---- ----
 - Prompt supply of spares ---- ----
9. Are you Sole Agent of manufacturer (for importer): _____

(If Sole Agent, a copy of Income Tax / GST Registration should be attached)
Otherwise the offer will be ignored / rejected.
10. Year of Establishment of manufacturing unit _____
11. Warranty period (please provide following details):
 - Uptime Guarantee: _____ %
 - Response time to maintenance requested: _____ Hours

12. Briefly state facilities and benefits provided during warranty period:

Supplier's Name: _____

Authorized Signature: _____ Designation _____

_____ Rubber Stamp _____

Contact No. _____ Fax No. _____ Cell No. _____

E. mail address: _____

CRITERIA FOR TECHNICAL EVALUATION OF THE BID :-

Specifications with best quality / features of the quoted item.	Points 50	
Service backup facilities in KARACHI of the quoted item.	Points 30	
According to the Terms & Conditions mentioned in the Bid Form.	Points 20	

FORM OF AGREEMENT

1. THIS AGREEMENT made this _____ day of _____ Between Messrs. Project Director “Shaheed Mohtarma Benazir Bhutto, Accidents, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi” being hereinafter called the “OWNER” which expression shall, wherever the context so permits, mean and include its successors in interest, executors, administrators, liquidators, nominees and assignees of the ONE PART, and Messrs. _____ hereinafter called the “CONTRACTOR”, which expression shall, wherever the context so permits, mean and include its heirs, successors in interest, executors, administrators, liquidators, nominees and assignees of the OTHER PART.

WHEREAS:

- a. The Owner had invited tenders from various contractors for *Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of Surgical Hand Instruments Sets for Operation Theatres of the project Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi (Contract No. PD-Trauma Centre-CHK/030 (Rev) 2014-15)* in accordance with the requirements, drawings, plans and instructions prepared by the owner, and contained in the tender documents issued by the Owners.
- b. In response to the invitation of the Owner, the Contractors have tendered their quotations and rates and have offered to carryout the supply, completion and maintenance of the aforesaid project and facilities in accordance with the requirements, conditions of contract, documents, standard quality, plans, drawings and instructions of the Owner.
- c. The Owner is willing and agreeable to accept the aforesaid quotation, rates and offer of the Contractor on the various terms and conditions specified herein and in the documents listed is Clause-1, below.

NOW THEREFORE, THIS AGREEMENT WITNESSETH and in consideration of the mutual covenant and condition set forth herein, the parties hereto, do hereby agree, undertake and declare as under:-

- 1. The Following documents, hereinafter called “Contract Documents” shall be deemed to form, read and construed as an integral part of this Agreement:-
 - a. Tender documents including Addendum.
 - b. Contractor’s bid letter No. _____ dated _____.
 - c. Relevant Correspondence.
 - d. Letter of Award No. _____ dated _____.

Tender S. No.	Description of Items	Rate on C&F Basis	Quantity Ordered	Total value in figures
1.				

2. Notwithstanding anything contained to the contrary or in conflict with the provisions of this agreement in any of the documents mentioned in Clause – 1, above, the provisions of this agreement shall prevail and the documents mentioned above shall be deemed to have been amended to the extent of inconsistency found therein, by the provisions of this Agreement, In case of inconsistency between any of the documents

referred to herein, the later documents shall prevail and the tender documents shall be construed to have been amended to that extent.

3. In consideration of the Contractors supply, completing and maintaining the work, as described heretofore, in conformity in all respects with provisions of this contract to the entire satisfaction of the owner, and the Contractor acting, abiding and performing his duties and obligations strictly in accordance with the terms and conditions herein and documents of the contract mentioned hereinabove, the Owner shall pay to the Contractor amount as per contract documents listed above.
4. This contract shall not be transferable or assignable in whole or part of any of the parties hereto, provided that the Owner may assign his rights and obligations in whole or in part to any other Company which shall be entirely owned Company belonging to the same Group of the Companies as the Owner, In such an event such other Company shall be entitled to act as Owner under this contract.

IN WITNESS WHEREOF the parties hereto, acting through their respective representative, have caused this agreement to be signed, sealed and delivered in their respective names on the day and the year first mentioned hereinabove.

SIGNED, SEALED AND DELIVERED
In the name and for and on
Behalf of the Owner / PROJECT DIRECTOR

NAME: _____

DESIGNATION: _____

WITNESS:

1. NAME: _____

ADDRESS: _____

2. NAME: _____

ADDRESS: _____

SIGNED, SEALED AND DELIVERED
In the name and for and on
Behalf of the CONTRACTOR

NAME: _____

DESIGNATION: _____

WITNESS:

1. NAME: _____

ADDRESS: _____

2. NAME: _____

ADDRESS: _____

1. SURGICAL INSTRUMENTS SETS FOR NEUROSURGERY

CRANIOTOMY TRAYS

a. Specification for Basic Neurosurgery Single Tray

1) Knife handle (Different sizes)	4
2) Tissue forceps	2
3) Cushing forceps	2
4) Cushing tissue forceps	2
5) Cushing needle forceps	2
6) Adson dressing forceps	2
7) Adson tissue forceps	2
8) DeBakey vascular tissue forceps	2
9) Woodson elevator	2
10) Double- ended elevator	2
11) Freer double- ended elevator	2
12) Penfield dissector (different sizes)	2
13) Blunt Dandy nerve hook	2
14) Sharp Adson nerve hook	2
15) Blunt Adson nerve hook	2
16) Steel ruler	4
17) Neuro periosteal elevator (different sizes)	2
18) Love- Adson periosteal elevator	4
19) Dental irrigating tips	4
20) Smooth retractor	4
21) Baby smooth retractor	2
22) Cushing retractor	2
23) Cushing vein retractor	2
24) U.S Army retractor	2
25) Volkman retractor	2
26) Weinstein instrument holder	2
27) Foerster sponge holding forceps	3
28) Mayo- Hegar needle holder (different sizes)	2
29) Ryder needle holder	30 + 30
30) Adson hemostatic forceps (different sizes) Curved + Straight	2
31) Allis tissue	10
32) Petit- point mosquito (different sizes) hemostate	4
33) Mayo scissors (different sizes)	4
34) Metzenbaum scissors (different sizes)	2
35) Reynolds scissors	2
36) Stookey scissors	2
37) Operating scissors	2
38) Strabismus scissors	2
39) Weitlaner retractor (different sizes)	2 + 2
40) Scalp retractor, curved arms&straight arms	2
41) Adson cerebellar retractor	6
42) Edna towel forceps	10
43) Frazier suction tube (different sizes)	
• Six trays of above mentioned instruments are required	

b. Specification for Craniotomy Sub-occipital Single Tray

1) Bruns oval cup curette (different sizes)	5
2) Copper ribbon retractor, malleable (different sizes)	10
3) Cushing pituitary spoon	4
4) Leksellrongeur, curved (different sizes)	6
5) Stille – Lucer- Echlin duckbill rongeur	2
6) Chicherellirongeur	2
7) Stookey cranial rongeur	2
8) Cushing rongeur	2
9) Hudson brace with precision snap lock _ burrs	1 + 6 burrs
10) Hudson cerebellar extension	1
11) Adson drill guide, angled on side	2
12) Gigili saw handle, solid pair	6
13) Cushing pituitary rongeur	4
14) Love – Gruenwaldpituitaryrongeur	4
15) Jarit- kerrisonrongeur (different sizes)	6
16) Scalp retractor	2
17) Miskimon cerebellar retractor	2
18) Watson Cheyne	2
19) Macdonald freer	2
20) Periosteal elevator	2
21) Killian	2
22) Cains bone levator	6
23) Halstead Mosquito forceps	2
24) Strabismus scissor straight	2
25) Abdominal Trocar	2
26) Hoffmn Shunt Passer	2
27) Brain needle	2
28) PanyBakcer nibbler	2
29) Conductor for gigli	2
30) Tumor grasping forceps	2

- **Six trays of above mentioned instruments are required**

SPINAL TRAYS

a. Specification for Laminectomy Single Tray

1) Cobb-type spinal elevator	2
2) Hibbs retractor (different sizes)	4
3) Israel retractor	4
4) Rochester- Ochner forceps	2
5) Cushing pituitary rongeur	2
6) Love- Gruenwald pituitary rongeur (different sizes)	2
7) Spurling pituitary rongeur (different sizes)	4
8) Peapod rongeur (different sizes)	4
9) Stile- Luer- Echlin angular duckbill	2
10) Leksellrongeur, curved (different sizes)	4
11) Miskimoncerebellar retractor	2
12) Cushing dressing forceps	2
13) Cushing tissue forceps	2
14) Bruns oval cup curette (different sizes)	4
15) Spinal fusion curette (different sizes)	2
16) Codman osteotome (different sizes)	2
17) Mallet	2
18) DeBaKey vascular tissue forceps	2
19) Love-Adson periosteal elevator	2
20) Dandy nerve hook	2
21) Awl diameter	2

- Six trays of above mentioned instruments are required

b. Specifications for Kerrison Single Tray

1) Cervical Kerrison Punch (different sizes)	6
2) Kerrison Punch (different sizes)	6

- Six trays of above mentioned instruments are required

c. Specifications for Laminectomy Retractors (Single set)

1) Langen back retractor	4
2) Anderson –Adson retractor	2
3) Norfolk and Norwich retractor	2
4) Cone retractor	2
5) Hemi / Laminectomy retractor	2
6) Williams retractor	2
7) Smith nerve root suction retractor	2
8) Pany backer	2
9) Nerve root retractor	2
10) Watson Cheyne	2
11) Macdonald periosteal elevators	2
12) Mallet with one smooth and rough surface	2
13) Codman ostertome	2
14) Ostertomes	
a. Stille	1
b. Cottle	1
c. Obwegesar	1

- Six sets of above mentioned instruments are required

d. Specifications for Anterior Cervical Discectomy (Single set)

- | | |
|-----------------------------------|---|
| 1) Curettes | 4 |
| 2) Vertebra spreader with ratchet | 1 |
| 3) Nerve Hooks (Sharp & Blunt) | 6 |
| 4) Kerrison punch 1mm, 2mm, 3mm | 6 |
| 5) Bone Graft Impactor | 2 |

- **Six trays of above mentioned instruments are required**

ANTERIOR CERVICAL SPINE RETRACTOR SYSTEM (TRIMLINE) 2 SETS REQUIRED

a. Specifications for Trans – Sphenoidal (Single Set)

- | | |
|--|---|
| 1) Right angle (small / medium)retractor | 4 |
| 2) Hardy knife handles bayoneted | 2 |
| 3) Luc's (Bayoneted) | 1 |
| 4) Chisel (Bayoneted) | 2 |
| 5) Blunt hooks | 2 |
| 6) Ring cutettes various size | 6 |
| 7) Enucleators (landott) various size | 6 |
| 8) Pituitary Rongeurs long handle (various size) | 4 |
| 9) Kerrison Punch, Up cuts / Down cuts, Angled / straight | 6 |
| 10) Scoop shaped forceps | 4 |
| 11) Fergusson suction (long length) working length 8", various deameter (1.5- 5.0) | 2 |
| 12) Killian septum specula various length | 4 |
| 13) Hardy specula (various) | 2 |
| 14) Pituitary spoon bayonetter | 2 |
| 15) Hardy sella punch (up/ down bits) | 2 |
| 16) Hardy micro-dissecto bayoneted | 2 |

- **Three sets of above mentioned instruments are required**

b. Specification for Micro Neurosurgery Instruments (Single set)

- | | |
|---|--------|
| 1) Tumor grasping forceps(bay)3mm, 5mm | 4 |
| 2) Micro probe 90° / 60° up angled | 4 |
| 3) Bayoneted Micro Forceps 7.5 | 4 |
| a. Spoon type tumor grasping forceps(bay) | 4 |
| b. Bayoneted Micro scissors, straight / curved | 4 |
| 4) Rhoton ball dissector | 2 |
| 5) Blood vessel probe | 2 |
| 6) Hook dissector | 2 |
| 7) Micro hooks | 2 |
| 8) Suction tips for micro neurosurgery (3-12Fr) | 2 each |
| 9) Micro needle holder, straight 180 m | 2 |
| 10) Bayonted straight cup forceps, up / down, angled | 4 |
| 11) Aneurysm clip applicator | 2 |

- **Four sets of above mentioned instruments are required.**

c. Specification for Thoracotomy Instruments (Single set)

- | | |
|---|---|
| 1) Chest wall self retaining retractor | 4 |
| 2) Davidson Scapular retractor | 2 |
| 3) Allison Lung Retractor | 2 |
| 4) Deaver retractor | 4 |
| 5) Stille-Giertz Rib shear | 4 |
| 6) Perisoteal elevator for Ribs | 4 |
| 7) Chisels (various sizes) | 2 |
| 8) Currettes (various sizes) | 4 |
| 9) Burford-Finochietto Rib retractor, small / large blades, 10" opening | 4 |
- **Three sets of above mentioned instruments are required.**

2. SURGICAL INSTRUMENTS SETS FOR OPEN HEART SURGERY

A. CARDIAC SET OF (OPEN SET LEG)

S.NO	INSTRUMENTS	SIZE	PER SET	Per 6 sets
1	Intrument Tray	Medium	1	06
2	Gally Pot	Small	2	12
3	Kidney Tray	Large	1	06
4	Kidney Tray	Small	1	06
5	Curved Arteries	5 1/2"	4	24
6	Mosquito Artery	5"	8	48
7	Straight Artery	5"	6	36
8	Metzenbaum Scissors Larg	9"	2	12
9	Metzenbaum Scissors Medium	8"	2	12
10	Niddle Holder	7"	2	12
11	R / Angle Retractor	Small	2	12
12	R / Angle Retractor	Medium	2	12
13	R / Angle Retractor	Large	2	12
14	B.P Knife Handle	3"	2	12
15	B.P Knife Handle	4"	2	12
16	Tuth Forceps	6"	2	12
17	Debakay Forceps	8"	2	12
18	Self Retaining Retractor	Small	1	06
19	Self Retaining Retractor	Medium	1	06
20	Self Retaining Retractor	Large	1	06

B. CARDIAC SET OF (OPEN SET LEG 2)

S.NO	INSTRUMENTS	SIZE	QTY
1	Instrument Tray	Large	01
2	Gally Pot	Small	02
3	Kidney Tray	Large	01
4	Kidney Tray	Small	01
5	Curved Arteries	5 1/2"	01
6	Mosquito Artery	5"	08
7	Straight Artery	5"	06
8	Metzenbaum Scissors Large	9"	01
9	Metzenbaum Scissors Medium	8"	01
10	Niddle Holder (S-M-L)	8" -7" -6"	01
11	R / Angle Retractor	Medium	04
12	B.P Knife Handle (S-M-L)	7" -4" -3"	02
13	Tuth Forceps	6"	02
14	Debakay Forceps	8"	02
15	Self Retaining Retractor		02

C. CARDIAC SET OF (OPEN SET LEG 3)

S.NO	INSTRUMENTS	SIZE	QTY
1	Intrument Tray	Large	01
2	Gally Pot	Small	02
3	Kidney Tray	Small	01
4	Mosquito Artery	5"	06
5	Straight Artery	5"	02
6	Metzenbaum Scissors Larg	9"	01
7	Metzenbaum Scissors Medium	8"	01
8	Niddle Holder (S-M-L)	8" -7" -6"	01
9	Tube Cutting Scissor	5 1/2"	02
10	B.P Knife Handle (S-M-L)	7" -4" -3"	01
11	Tuth Forceps	6"	02
12	Debakay Forceps	8"	02
13	Self Retaining Retractor		01
14	Arteries Stragith	8"	01

D. CARDIAC SET OF (OPEN SET PDA)

S.NO	INSTRUMENTS	SIZE	QTY
1	Instrument Tray	Large	01
2	Gally Pot	Small	02
3	Kidney Tray	Small	01
4	Curved Arteries	5 1/2"	01
5	Mosquito Artery	5"	04
6	Straight Artery	5"	03
7	Metzenbaum Scissors Large	9"	01
8	Metzenbaum Scissors Medium	8"	01
9	Spounge Holder	8"	01
10	Niddle Holder (S-M-L)	8" -7" -6"	03
11	Robert	8"	02
12	Du Wall	8" - 6"	02
13	Bab Cob	7" - 6"	02
14	Munium Clamp	5" 1/2	03
15	Demra Clamp (S-M-L)	8" -7" -6"	02
16	Towel Clips	5 1/2"	07
17	R / Angle Retractor	Medium	03
18	Section Nosal (S-L)	8" - 4"	01
19	B.P Knife Handle (S-M-L)	7" -4" -3"	02
20	Tuth Forceps	6"	01
21	Debakay Forceps	8"	02
22	Debakay Fine Tip	8"	01
23	Chest Retractor (S-M-L)	Large	01

E. CARDIAC SET OF (OPEN SET SP SHUNT)

S.NO	INSTRUMENTS	SIZE	QTY
1	Intrument Tray	Large	01
2	Gally Pot	Small	02
3	Kidney Tray	Large	01
4	Kidney Tray	Small	01
5	Curved Arteries	5 1/2"	03
6	Mosquito Artery	5"	04
7	Straight Artery	5"	03
8	Metzenbaum Scissors Larg	9"	02
9	Metzenbaum Scissors Medium	8"	01
10	Spounge Holder	8"	01
11	Niddle Holder (S-M-L)	8" -7" -6"	04
12	Stansky	9"	01
13	Robert	8"	02
14	R / Angle Clamp	9" - 8"	02
15	Du Wall	8" - 6"	03
16	Bab Cob	7" - 6"	01
17	Derra Clamp (S-M-L)	8" -7" -6"	02
18	Towel Clips	5 1/2"	05
19	B.P Knife Handle (S-M-L)	7" -4" -3"	02
20	Tuth Forceps	6"	02
21	Debakay Forceps	8"	02
22	Chest Retractor (S-M-L)	Large	01
23	Self Retaining Retractor		03
24	Preostim Alivater		01

F. CARDIAC SET OF (OPEN SET MS1)

S.NO	INSTRUMENTS	SIZE	QTY
1	Intrument Tray	Large	01
2	Gally Pot	Large	01
3	Gally Pot	Small	02
4	Kidney Tray	Large	01
5	Kidney Tray	Small	01
6	Curved Arteries	5 1/2"	06
7	Arteries Straight	5 1/2"	01
8	Mosquito Artery	5"	04
9	Straight Artery	5"	02
10	Metzenbaum Scissors Larg	9"	02
11	Metzenbaum Scissors Medium	8"	01
12	Spounge Holder	8"	02
13	Stansky	9"	03
14	Robert	8"	02
15	R / Angle Clamp	9" - 8"	02
16	Du Wall	8" - 6"	02
17	Bab Cob	7" - 6"	03
18	Vascular Clamp	6"	02

19	Wire Cutter	Small	01
20	Tube Dilater	Small	01
21	Towel Clips	5 1/2"	07
22	Scale	Large	01
23	Snager Wire	12"	01
24	R / Angle Retractor	Medium	04
25	Section Nosal (S-L)	8" - 4"	01
26	B.P Knife Handle (S-M-L)	7" -4" -3"	01
27	Russian Forceps	8"	02
28	Tuth Forceps	6"	02
29	Debakay Forceps	8"	02
30	Chest Retractor (S-M-L)	Large	01

G. CARDIAC SET OF (OPEN SET MS2)

S.NO	INSTRUMENTS	SIZE	QTY
1	Intrument Tray	Large	01
2	Gally Pot	Small	03
3	Kidney Tray	Large	01
4	Kidney Tray	Small	01
5	Curved Arteries	5 1/2"	05
6	Mosquito Artery	5"	05
7	Straight Artery	5"	06
8	Metzenbaum Scissors Larg	9"	01
9	Metzenbaum Scissors Medium	8"	01
10	Spounge Holder	8"	02
11	Niddle Holder (S-M-L)	8" -7" -6"	03
12	Stansky	9"	02
13	Robert	8"	02
14	R / Angle Clamp	9" - 8"	02
15	Du Wall	8" - 6"	02
16	Bab Cob	7" - 6"	02
17	Towel Clips	5 1/2"	07
18	R / Angle Retractor	Medium	02
19	B.P Knife Handle (S-M-L)	7" -4" -3"	02
20	Russian Forceps	8"	02
21	Tuth Forceps	6"	02
22	Debakay Forceps	8"	01
23	Chest Retractor (S-M-L)	Large	01

H. CARDIAC SET OF (OPEN SET 01)

S.NO	INSTRUMENTS	SIZE	PER SET	Per 6 sets
1	Intrument Tray	Large	01	06
2	Gally Pot	Large	01	06
3	Gally Pot	Small	05	30
4	Kidney Tray	Large	01	06
5	Kidney Tray	Small	01	06

6	Kockers	8"	14	84
7	Wire Twistter	6"	02	12
8	Wire Twistter	8"	02	12
9	Tube Clamp	8"	06	36
10	Curved Arteries	5 1/2"	06	36
11	Arteries Straight	5 1/2"	10	60
12	Mosquito Artery	5"	12	72
13	Straight Artery	5"	06	36
14	Metzenbaum Scissors Larg	9"	01	06
15	Metzenbaum Scissors Medium	8"	01	06
16	Mitral Scissor	7"	01	06
17	Tube Holder	Small	01	06
18	Spounge Holder	8"	04	24
19	Niddle Holder (L)	8"	02	12
20	Niddle Holder (M)	7"	02	12
21	Niddle Holder (S)	6"	02	12
22	Satanky	9"	03	18
23	Robert	8"	02	12
24	R / Angle Clamp	9"	03	18
25	R / Angle Clamp	8"	03	18
26	Du Wall	8"	03	18
27	Du Wall	8"	03	18
28	Bab Cock	6"	02	12
29	Bab Cock	7"	02	12
30	Alice Tissue Forcep	6"	02	12
31	Alice Tissue Forcep	7"	02	12
32	Munium Clamp	5 1/2"	02	12
33	Aortic Clamp	7"	02	12
34	Aortic Clamp	8"	02	12
35	Duera Clamp (L)	8"	03	18
36	Duera Clamp (M)	7"	03	18
37	Duera Clamp (S)	6"	03	18
38	Vascular Clamp	6"	02	12
39	Wire Cutter	Small	01	06
40	Tube Dilater	Small	01	06
41	Towel Clips	5 1/2"	12	72
42	Scale	Large	01	06
43	Snager Wire	12"	01	06
44	Atrial Retractor	8"	01	06
45	Atrial Retractor	10"	01	06
46	Mitral Retractor	10"	01	06
47	Tube Cutting Scissor	5 1/2"	01	06
48	R / Angle Retractor	Medium	02	12
49	R / Angle Retractor	Large	02	12
50	Aortic Root Retractor (1,2,3,4)	10"	10	60
51	Nerve Hook	8"	02	12
52	Section Nosal (S-L)	4"	02	12
53	Section Nosal (S-L)	8"	02	12

54	B.P Knife Handle (S-M-L)	3"	04	24
55	B.P Knife Handle (S-M-L)	4"	04	24
56	B.P Knife Handle (S-M-L)	7"	04	24
57	IMA Forceps	8"	02	12
58	Russian Forceps	8"	02	12
59	Tuth Forceps	6"	02	12
60	Debakay Forceps	8"	02	12
61	Debakay Fine Tip	8"	02	12
62	IMA Retractor	Large	01	06
63	Chest Retractor	Small	01	06
64	Chest Retractor	Medium	01	06
65	Chest Retractor	Large	01	06
66	Self Retaining Retractor		03	18
67	Preostim Alivater		01	06
68	Rongeor		01	06
69	Rongeor		01	06
70	Rongeor		01	06
71	Instrument Hanger	Large	06	36
72	Still Bone Nibbler		01	06
73	Leaflet Retractor		01	06
74	Caseroviejo Niddle Holder	5"	02	12

I. CARDIAC SET OF (OPEN SET 02)

S.NO	INSTRUMENTS	SIZE	QTY
1	Instrument Tray	Large	01
2	Gally Pot	Large	01
3	Gally Pot	Small	05
4	Kidney Tray	Large	01
5	Kidney Tray	Small	01
6	Kockers	8"	14
7	Wire Twister	6" - 8"	02
8	Tube Clamp	8"	04
9	Curved Arteries	5 1/2"	02
10	Arteries Straight	5 1/2"	10
11	Mosquito Artery	5"	10
12	Straight Artery	5"	06
13	Metzenbaum Scissors Large	9"	01
14	Metzenbaum Scissors Medium	8"	01
15	Mitral Scissor	7"	01
16	Tube Holder	Small	01
17	Spounge Holder	8"	03
18	Niddle Holder (S-M-L)	8" -7" -6"	07
19	Stansky	9"	03
20	Robert	8"	02
21	R / Angle Clamp	9" - 8"	03
22	Du Wall	8" - 6"	03
23	Bab Cob	7" - 6"	02
24	Alice Tissue Forcep	7" - 6"	02

25	Munium Clamp	5" 1/2	02
26	Aortic Clamp	8" - 7"	02
27	Demra Clamp (S-M-L)	8" -7" -6"	03
28	Vascular Clamp	6"	02
29	Wire Cutter	Small	01
30	Tube Dilater	Small	01
31	Towel Clips	5 1/2"	13
32	Scale	Large	01
33	Snager Wire	12"	01
34	Arterial Retractor	10" - 8"	01
35	Mitral Retractor	10"	01
36	Tube Cutting Scissor	5 1/2"	01
37	R / Angle Retractor	Medium	02
38	Aortic Root Retractor (1,2,3,4)	10"	10
39	Nerve Hook	8"	01
40	Section Nosal (S-L)	8" - 4"	02
41	B.P Knife Handle (S-M-L)	7" -4" -3"	04
42	I-M Forceps	8"	02
43	Russian Forceps	8"	02
44	Tuth Forceps	6"	02
45	Debakay Forceps	8"	02
46	Debakay Fine Tip	8"	02
47	I-M Retractor	Large	01
48	Chest Retractor (S-M-L)	Large	01
49	Self Retaining Retractor		04
50	Preostim Alivater		01

J. CARDIAC SET OF (OPEN SET 03)

S.NO	INSTRUMENTS	SIZE	QTY
1	Intrument Tray	Large	02
2	Gally Pot	Large	01
3	Gally Pot	Small	03
4	Kidney Tray	Large	01
5	Kidney Tray	Small	01
6	Kockers	8"	12
7	Wire Twistter	6" - 8"	01
8	Tube Clamp	8"	04
9	Arteries Straight	5 1/2"	05
10	Mosquito Artery	5"	13
11	Straight Artery	5"	05
12	Metzenbaum Scissors Larg	9"	01
13	Metzenbaum Scissors Medium	8"	01
14	Tube Holder	Small	01
15	Spounge Holder	8"	02
16	Niddle Holder (S-M-L)	8" -7" -6"	07
17	Stansky	9"	01
18	Robert	8"	02
19	R / Angle Clamp	9" - 8"	02

20	Du Wall	8" - 6"	02
21	Bab Cob	7" - 6"	02
22	Alice Tissue Forcep	7" - 6"	01
23	Munium Clamp	5" 1/2	02
24	Aortic Clamp	8" - 7"	01
25	Derra Clamp (S-M-L)	8" -7" -6"	03
26	Vascular Clamp	6"	02
27	Wire Cutter	Small	01
28	Tube Dilater	Small	01
29	Towel Clips	5 1/2"	12
30	Snager Wire	12"	01
31	Arterial Retractor	10" - 8"	01
32	Mitral Retractor	10"	01
33	R / Angle Retractor	Medium	02
34	Aortic Root Retractor (1,2,3,4)	10"	09
35	Nerve Hook	8"	01
36	Section Nosal (S-L)	8" - 4"	02
37	B.P Knife Handle (S-M-L)	7" -4" -3"	03
38	I-M Forceps	8"	01
39	Russian Forceps	8"	02
40	Tuth Forceps	6"	02
41	I-M Retractor	Large	01
42	Chest Retractor (S-M-L)	Large	01
43	Preostim Alivater		01

K. CARDIAC SET OF (OPEN SET 04)

S.NO	INSTRUMENTS	SIZE	QTY
1	Instrument Tray	Large	04
2	Gally Pot	Large	01
3	Gally Pot	Small	05
4	Kidney Tray	Large	09
5	Kidney Tray	Small	01
6	Kockers	8"	12
7	Wire Twistter	6" - 8"	01
8	Tube Clamp	8"	04
9	Curved Arteries	5 1/2"	04
10	Arteries Straight	5 1/2"	04
11	Mosquito Artery	5"	08
12	Straight Artery	5"	04
13	Metzenbaum Scissors Large	9"	01
14	Metzenbaum Scissors Medium	8"	02
15	Spounge Holder	8"	02
16	Niddle Holder (S-M-L)	8" -7" -6"	09
17	Stansky	9"	01
18	Robert	8"	02
19	R / Angle Clamp	9" - 8"	02
20	Du Wall	8" - 6"	02
21	Bab Cob	7" - 6"	01

22	Alice Tissue Forcep	7" - 6"	01
23	Munium Clamp	5" 1/2	01
24	Aortic Clamp	8" - 7"	01
25	Derra Clamp (S-M-L)	8" -7" -6"	01
26	Wire Cutter	Small	01
27	Tube Dilater	Small	01
28	Towel Clips	5 1/2"	09
29	Snager Wire	12"	01
30	Arterial Retractor	10" - 8"	01
31	Mitral Retractor	10"	01
32	R / Angle Retractor	Medium	04
33	Aortic Root Retractor (1,2,3,4)	10"	05
34	Nerve Hook	8"	01
35	Section Nosal (S-L)	8" - 4"	04
36	B.P Knife Handle (S-M-L)	7" -4" -3"	02
37	I-M Forceps	8"	01
38	Russian Forceps	8"	02
39	Tuth Forceps	6"	02
40	Debakay Forceps	8"	02
41	Debakay Fine Tip	8"	02
42	Chest Retractor (S-M-L)	Large	01
43	Self Retaining Retractor		01

L. CARDIAC SET OF (REOPEN 02)

S.NO	INSTRUMENTS	SIZE	QTY
1	Instrument Tray	Large	01
2	Gally Pot	Large	01
3	Gally Pot	Small	02
4	Kidney Tray	Large	01
5	Kidney Tray	Small	01
6	Kockers	8"	14
7	Wire Twistter	6" - 8"	01
8	Tube Clamp	8"	04
9	Curved Arteries	5 1/2"	06
10	Mosquito Artery	5"	06
11	Straight Artery	5"	06
12	Metzenbaum Scissors Medium	8"	01
13	Spounge Holder	8"	02
14	Niddle Holder (S-M-L)	8" -7" -6"	03
15	Stansky	9"	01
16	Robert	8"	02
17	R / Angle Clamp	9" - 8"	02
18	Du Wall	8" - 6"	02
19	Bab Cob	7" - 6"	02
20	Alice Tissue Forcep	7" - 6"	02
21	Derra Clamp (S-M-L)	8" -7" -6"	02
22	Wire Cutter	Small	01
23	Towel Clips	5 1/2"	10

24	Snager Wire	12"	01
25	R / Angle Retractor	Medium	02
26	Section Nosal (S-L)	8" - 4"	01
27	B.P Knife Handle (S-M-L)	7" -4" -3"	03
28	Russian Forceps	8"	01
29	Tuth Forceps	6"	02
30	Debakay Forceps	8"	02
31	Chest Retractor (S-M-L)	Large	01

M. CARDIAC SET OF (REOPEN 03)

S.NO	INSTRUMENTS	SIZE	QTY
1	Intrument Tray	Large	01
2	Gally Pot	Small	02
3	Kidney Tray	Large	01
4	Kidney Tray	Small	01
5	Kockers	8"	10
6	Wire Twistter	6" - 8"	01
7	Curved Arteries	5 1/2"	08
8	Mosquito Artery	5"	03
9	Straight Artery	5"	02
10	Metzenbaum Scissors Medium	8"	01
11	Spounge Holder	8"	01
12	Niddle Holder (S-M-L)	8" -7" -6"	04
13	Stansky	9"	01
14	Robert	8"	01
15	Du Wall	8" - 6"	01
16	Bab Cob	7" - 6"	02
17	Alice Tissue Forcep	7" - 6"	02
18	Derra Clamp (S-M-L)	8" -7" -6"	01
19	Wire Cutter	Small	01
20	R / Angle Retractor	Medium	01
21	Section Nosal (S-L)	8" - 4"	01
22	B.P Knife Handle (S-M-L)	7" -4" -3"	02
23	Tuth Forceps	6"	02
24	Debakay Forceps	8"	02
25	Chest Retractor (S-M-L)	Large	01

N. CARDIAC SET OF (REOPEN 01)

S.NO	INSTRUMENTS	SIZE	QTY
1	Intrument Tray	Large	01
2	Gally Pot	Large	01
3	Gally Pot	Small	05
4	Kidney Tray	Large	01
5	Kidney Tray	Small	01
6	Kockers	8"	14
7	Wire Twistter	6" - 8"	01
8	Tube Clamp	8"	04

9	Curved Arteries	5 1/2"	06
10	Mosquito Artery	5"	06
11	Straight Artery	5"	06
12	Metzenbaum Scissors Medium	8"	01
13	Sponge Holder	8"	02
14	Niddle Holder (S-M-L)	8" -7" -6"	03
15	Stansky	9"	01
16	Robert	8"	02
17	R / Angle Clamp	9" - 8"	02
18	Du Wall	8" - 6"	02
19	Bab Cob	7" - 6"	02
20	Alice Tissue Forcep	7" - 6"	02
21	Derra Clamp (S-M-L)	8" -7" -6"	03
22	Wire Cutter	Small	01
23	Towel Clips	5 1/2"	09
24	Scale	Large	01
25	Snager Wire	12"	01
26	R / Angle Retractor	Medium	02
27	Section Nosal (S-L)	8" - 4"	01
28	B.P Knife Handle (S-M-L)	7" -4" -3"	03
29	Russian Forceps	8"	01
30	Tuth Forceps	6"	02
31	Debakay Forceps	8"	02
32	Chest Retractor (S-M-L)	Large	01
33	Curate		01
34	Bone Cutter		01

O. VASCULAR INSTRUMENT FINE SET

S.No	INSTRUMENT	SIZE	PER SET	PER 6 SETS
1	Micro Needle Holders	190 MM	1	6
2	Micro Needle Holders	230 MM	1	6
3	Micro Forceps with ring Tip	185 MM	2	12
4	Micro Forceps with ring Tip	210 MM	2	12
5	Micro Scissors Fine Blade	15 MM	2	12
6	Micro Scissor Forward	45 MM	2	12
7	Micro Scissor Backward	125 MM	2	12
8	Micro scissor Right angle	125 MM	2	12
9	Micro Foceps Dia Dust		2	12
10	Titanium Ligating Clips Appliers	203 MM	2	12
11	Vascular Bulldog Clamp	14 MM	3	18
12	Vascular Bulldog Clamp	19 MM	3	18
13	Vascular Bulldog Clamp	16 MM	3	18
14	Vascular Dilators	1.0 MM	1	6
15	Vascular Dilators	1.5 MM	1	6
16	Vascular Dilators	2.0 MM	1	6
17	Vascular Spatulas Dissectors Elevator	245 MM	2	12
18	Nerve and Vessels Hooks		2	12
19	Aortic cross clamp	Small	2	12

20	Aortic cross clamp	Medium	2	12
21	Aortic cross clamp	Large	2	12
22	Geraed Clamp	5"	3	18
23	Geraed Clamp	7"	3	18
24	Watson chynae dissector	Medium	2	12

P. EQUIPMENT FOR CARDIAC SURGERY

S. NO.	DESCRIPTION	QTY
1	Instrument Box	10 Tray
2	Instrument Box for FINE set	04 Tray
3	Plastic Tray	06 Tray
4	Cos grove Valve Retractor system	02 sets
5	Endoscopic vein harvesting system set	1 set
6	with disposable sets	5 sets

Q. SURGICAL INSTRUMENTS SETS FOR MAXILLOFACIAL SURGERY

GENERAL OMF SET - 10

Description	Quantity
YANKAUER SUCTION TUBE, SS	03
FRAZIER SUCT TUBE, ANG, BER, A7CM	06
SCALPEL HANDLE #73,12,5CM,5*	06
SCALPEL HANDLE #7,16.5CM 61/2*	06
ASPIRATING SYRINGE, 1,8CC,*C-W*	06
METZENBANUM SCISSORS, DEL, CVD,14	03
METZENBANUM SCISSORS, DEL, CVD,18	03
IRIS SCISSORS, STR,11,5CM,4-1/2"	03
IRIS SCISSORS, CURVED,11,5CM,4"	03
JOSEPH SCISSORS, CURVED,14CM,5'	03
PAR SCISSORS, STR,11,5CM,4-1/2"	03
PAR SCISSORS, CURVED,11,5CM,4-1	03
STEVENS SCISSORS, CVD,BLUNT,11.	03
KILNER SCISSORS, CVD, 13 CM,5",PO	03
F-L SCS,CVD,SER,20CM,PCTC	03
PC OP SCS,CV,S/B,SER,14,5CM,TC	03
MAYO SCISSORS, CURVED,17CM,TC	03
HALSEY NDLHLDR, FINE,13CM,5",TC	03
CRILE-WOOD NH,FINE, 18CM,7",TC	03
WEBSTER NH,SMOOTH,11,5CM,TC	03
<u>FORCEPS & HEMOSTATS</u>	
BACKHAUS TOWEL FCPS,CM,3-1/2"	18
FOERSTER FCPS,STR,SERR,18CM,7"	06
HALSTED FORCEPS,STR,12,5CM,5"	06
HALSTED FORCEPS,CVD,12,5CM,5"	12
CRILE FORCEPS,STR,14CM,5-1/2"	12
MICRO FCPS, DELICATE,STR, 12CM	06
MICRO FCPS,DELICATE,CVD,12CM	06
Baby-allis tissfcps,4x5t,12,5c	06
ADSON FCPS,STD,12CM,4-3/4,TC	03
ADSON FORCEPS, 1X2T,STD,15CM,TC	03
ADSON FORCEPS, 1X2T,STD,15CM,TC	03
<u>RETRACTORS & RULERS</u>	
WERTHER EYELID/ORBIT RIM RETER	03
BISHOP-HARMON FCPS, SERR, 8.5CM	03
BISHOP-HARMON FCPS, 1X2T,8.5CM	03
FARAZIER SKIN HOOK,SH,13CM,5"	03
JOSEPH SINGLE HOOK, HVY,15CM,6"	03
JOSEPH DBL HOOK,2MM,HVY,16CM	03
LUER TRACHEAL RETR,S-SHAPE,11C	03
STAINLESS RULER,MM & IN, 15CM.6	03
SENN RETR, DE,SHARP,16CM, 6-1/4"	03
Senn retr,de,blunt,16cm,6-1/4'	03
CUSHING VEIN RETRACTOR,22,5CM	03
LIGATURE WIRE ,S/S, 24GA,0.020"	01
HSUZE DIRECTORS & LIGATURE TUCK	02
SMITH WIRE CUTTER WITH NOTCH	01

WIRE CUTTING SCISS,ANG,12CM,TC	01
WIRE TWISTER, DEL,STD,18CM,TC	01

**ORAL SURGERY: SOFT TISSUE BIOPSY TRAY
NUMBER OF TRAYS REQUIRED 3**

DESCRIPTION	QUANTITY PER TRAY
<u>SUTURE & CUTTING INSTRUMENTS</u>	
DEAN SCISSORS, SERRATED, 17CM	01
IRIS SCISSORS, CV, 11, 5CM,4-1/2"	01
YANKAUER SUCTION TUBE, SS	01
FRAZIER SUCT TUBE, AN, 10FR, 17CM	02
SCALPEL handle # 3;12.5cm,5"	02
Pc metz, scs, del, ser, cv,14cm	01
Crile-wood nh,fine,18cm,7",tc	01
Mayo-hegar ndlhldr, std, 16cm,tc	01
<u>FORCEPS & HEMOSTATS</u>	
BACKHAUS TOWEL FORCEPS, 13CM,5"	08
KELLY FORCEPS, CVD,14CM,5-1/2"	01
MICRO FCPS, DELICATE, CVD,12CM	01
ADSON FORCEPS, 1X2T, STD,15CM,TC	01
ADSON M-FCPS,,1X2T,STD,15CM,TC	01
DESMARRES CHALAZ FCPS, MED,9CM	01
DESMARRES CHALAZ FCPS, LRG,9CM	01
<u>RETRACTORS</u>	
U OF M TONG DPSR AND CHK RETR	01
WIEDER RETRACTOPR, SERRATED , LARG	01
MOUTH PROP, ADULT, BLACK	01
MOUTH PROP, CHILD, BLACK	01
MOLT MOUTH GAS, ADULT SIZE, 14CM	01
<u>MISC.</u>	
MIRROR HANDLE, HOLLOW	01
MOUTH MIRROR, FRT SURFACE, SIZ 4	01
EMESIS BASIN, S/S, 10X4-1/2X2-1/	01
INST TRAY, S/S, FLAT, 15-1/8X10-1	01
ASPIRATING SYRINGE, 1. BCC,"C-W"	01

**ORAL SURGERY; SINUS LIFT TRAY
NUMBER OF TRAYS REQUIRED 3**

DESCRIPTION	QUANTITY PER TRAY
<u>SUTURE & CUTTING INSTRUMENTS</u>	
LORENZ SUCTION SYSTEM, COMPLETE	01
FRAZIER SUCT TUBE , ANG, 9FR, 17CM	02
SCALPEL HANDLE # 3,12.5CM, 5"	01
SCALPEL BLADE, FIG 15C, 100/BOX	02
IRIS SCISSORS, CURVED, 11.5CM, TC	01
KELLY SCISSORS, CURVED, 16CM,6-1	01
DEAN SCISSORS, SERRATED, 17CM,6-	01
CRILE-WOOD NH, FINE, 18CM,7",TC	01
<u>FORCEPS</u>	
CUSHING FCPS, BAYO, SERR, 18, 5CM	01
KELLY FORCEPS, CVD, 14CM,5-1/2"	01

ADSON FORCEPS, 1X2T,STD,15CM,TC	01
<u>RETRACTORS</u>	
MOUTH PROF, LARGE ADULT, BLACK	01
MOUTH PROP, ADULT, BLACK	01
AUSTIN TISSUE RETRACTORS#2	01
U OF M TONG DPSR AND CHK RETR	01
WIEDER RETRACTORS, SERRATED, SMALL	01
WIDER RETRACTOR, SERRATED, LARGE	01
<u>ELEVATORS & CURETTES</u>	
PERIOSTEAL ELEVATOR #9,18CM,7"	01
WOODSON ELEVATORS # 1	01
DOUBLE- ENDED CURETTE # 10	01
MOLT CURETTE # 4	01
MOLT CURETTE # 2 16. 5CM	01
<u>SINUS ELEVATORS</u>	
TATUM SINUS MEMBRANE ELEVATOR	10
<u>MISC:</u>	
MIRROR HANDLE, HOLLOW	01
MOUTH MIRROR, FRT SURFACE, SIZ 4	01
EMESIS BASIN, S/S, 10X4-1/2X2-17	01
INST TRAY, S/S. FLAT , 15-1/8X10-1	01
ASPIRATING SYRINGE, 1.8CC,"	

ORAL SURGERY; HARD TISSUE BIOPSY TRAY
NUMBER OF TRAYS REQUIRED 3

DESCRIPTION	QUANTITY PER TRAY
<u>SUTURE & CUTTING INSTRUMENTS</u>	
DEAN SCISSORS, SERRATED, 17CM	01
IRIS SCISSORS.CV,11.5CM,4-1/2"	01
Yankauer suction tube, SS	01
FRAZIER SUCT TUBE, AN,10FR,17CM	02
SCALPEL HANDLE # 3,12,5CM,5"	02
PC METZ, SCS, DEL,SER,CV,14CM	01
CRILE-WOOD NH, FINE, 18CM,7",TC	01
WEBSTER NH, DEL,MICRO,11,5CM,TC	01
<u>FORCEPS & HEMOSTATS</u>	
BACKHAUS TOWEL FORCEPS, 13CM,5'	08
KELLY FORCEPS, CVD, 14CM,5-1/2"	01
MICRO FCPS, DELICATE, CVD, 12CM	01
ADSON FORCEPS, 1X2T,STD, 15CM,TC	01
ADSON M-FCPS, 1X2T,STD, 15CM,TC	01
DESMARRES CHALAZ FCPS, MED, 9CM	01
DESMARRES CHALAZ FCPS, PRG,9CM	01
<u>RETRACTORS</u>	
U OF M TONG DPSR AND CHK RETR	01
WIEDER RETRACTORS, SERRATED, LARGE	01
MOUTH PROP, ADULT, BLACK	01
MOUTH PROP, CHILD, BLACK	01
MOLT MOUTH GAS, ADULT SIZE, 14CM	01
<u>MISC.</u>	
MIRROR HANDLE, HOLLOW	01

MOUTH MIRROR, FRT SURFACE, SIZE 4	01
EMESIS BASIN, S/S, 10X4-1/2X2-1/	01
INST TRAY, S/S, FLAT, 15-1/8X10-1	01
ASPIRATING SYRINGE, 1.8CC,"C-W"	01
<u>HARD TISSUE BIOPSY TRAY</u>	
BONE FILE	01
MINI-FRIEDMAN RONGEUR, 14 CM,5-1	01
CLEVELAND RONGEUR # 4A,17CM,6-3	01
MOLT PERRIOSTEAL ELEVATOR #9	01
MOLT CURETTE # 2 16.5CM	01
MOLT CURETTE #4	01
MOLT CURETTE #5L	01
MOLT CURETTE #5R	01
SELDIN PERIO ELEV #23,HEX	01

**SPECIAL INSTRUCTIONS:
THIS TRAY INCLUDES SOFT TISSUE TRAY**

CHISEL, SGL BEVEL, OCTAGONAL HANDLE	01
CHISEL, BIBEVEL, OCTAGONAL HANDLE	01
<u>RONGEURS</u>	
MINI-FRIEDMAN RONGEUR, 14 CM,5-1	01
BLUMENTHAL RONGEUR, REGULAR,15C	01
CLEVELAND RONGEUR # 4A,17CM,6-3	01
<u>MISC.</u>	
EXPLORER #5	01
MIRROR HANDLE, HOLLOW	01
MOUTH MIRROR, FRT SURFACE, SIZ 4	01
EMESIS BASIN, S/S, 10X4-1/2X2-1/	01
INST TRAY,S/S, FLAT, 15-1/8X10-1	01
ASPIRATING SYRINGE, 1,8CC,"C-W"	01

**CRANIOFACIAL SURGERY TRAY
NUMBER OF TRAYS REQUIRED 3**

DESCRIPTION	QUANTITY PER TRAY
<u>SUTURE & CUTTING INSTRUMENTS</u>	
YANKAUER SUCTION TUBE,SS-	01
FRAZIER SUCT TUBE, ANG,7FR, 17CM	02
FRAZIER SUCT TUBE, AN,10FR,17CM	02
SCALPEL HANDLE # 3,12.5CM,5"	02
PC WAGNER SCS,SER,S/S,12CM	01
ASPIRATINGSYRINGE, 1.BCC,"C-W'	02
STE VENTS SCISSORS, CVD, BLUNT,11.	01
MAYO SCISSORS,STRAIGHT, 17CM,TC	01
MAYO SCISSORS, CURVED, 17CM,TC	01
METZENBAUM SCISSORS, DEL,CVD,S/	01
METZ SCISS, DEL,CVD, B/B,DEL,CVD,S/	01
IRIS SCISSORS, STR,11,5CM,TC	01
IRISSCISSORS, STR, 11,5CM,TC	01
WIRE CUTTING SCISS, ANG, 12CM,TC	01
HALSEY NDLHLDR, FINE, 13CM,5"TC	01
CRILE-WOOD NH, FINE, 18CM,7",TC	01
MAYO-HEGAR NDLHLDR, STD,18CM,TC	01

<u>FORCEPS & HEMOSTATS</u>	
ROWE,S DISIMPACT FCP, LEFT, 23CM	01
Rowe's disimpact fcp, rght,23cm	01
WALSHAM SEPTUM STRAIGHTENING F	01
ASCH SEPTUM STRTING FCP,22,5CM	01
GOLDMAN SEPTUM DISPLACER, 19CM	01
BISHOP-HAPMON FCPS,SERR,8 5CM	01
FOERSTEP FCPS, STR, SERR, 18CM,7"	01
HALSTED FORCEPS, STR,12,5CM,5"	02
HALSTED FORCEPS ,CVD,12CM,5-1/2"	02
CRILE FORCRPS, CVD,14CM,5-1/2"	04
KOCHER FORCEPS,STR,1X2T,14CM	02
KOCHER FORCEPS, CVD, 1X2T,14CM	02
ROCHESTER-OCHSNEP, FCP,STR,16CM	02
<u>RETRACTORS 7 RULERS</u>	
OBWEGESER RET, DWN, 42X11MM,23CM	01
OBWEGESERRET, DWN,55X12MM,22CM	01
3BWEGESER RETR,UP,60X12MM,22CM	01
OBWEGESER RETR,UP,80X16MM,22CM	01
HARGIS MANDIBULAR BODY RETRACT	01
WERTHER EYELID/ORBIT RIM RETR	01
MOUTH PROP, ADULT, BLACK	01
MOUTH PROP, CHILD, BLACK	01
WIEDER RETRACTOR, SERRATED, SMAL	01
WIDER RETRACTOR, SERRATED , LARG	02
NIRO SKIN HOOK, SZ 3,SH,17	02
RAGNELL-DAVIS RETR, DE,14CM	02
JOSEPH DBL HOOK, 7MM,HVY,16CM	01
DESMARRES LID RETR, 11MM, 14 CM	01
DESMARRES LID RETR, 13MM,14CM	01
DESMARRES LID RETR,15MM,14CM	01
SMITHWICK NERVE HOOK,BLUNT,17C	02
STAINLESS RULER, MM & IN,15CM,6	01
SENN RETR, DE, SHARP, 16CM,6-1/4"	02
SENN RETR,DE,BLUNT, 16CM,6-1/4'	02
US ARMY RETR, DE, 21CM, 2/SET	01
<u>ELEVATORS</u>	
ROWE'S ZYGOMATIC ELEVATOR, 25CM	01
ZYGOMA HOOK ELVE, SHARP, 24,5CM	01
CARROLL-GIRARD SCREW, 9,5CM	01
FREER SEPTUM ELEVATOR, 18CM,7'	01
JOSEPH ELEVATOR, CVD, 4MM,16CM	01
COTTLE SEPTUM ELEV, DE, 22,5CM	01
SELDIN PERIOSTEAL ELEVATOR #23	01
BRASTOW ELEVATOR	02
<u>RONGEURS & RASPS</u>	
Wiener antrum rasp, trocar, 20cm	01
Rondeur # 4, universal, 14cm,5-1/	01
<u>WIRE & WIRE INSTRUMENTS</u>	
Obwegeser maxillary awl,18cm	01
Obwegeser zygo arch awl,23cm	01
Obwegeser zygo arch awl,23cm	01

ERICH ARCH BAR,1 METER ROLL	01
RUBBER BANDS, LG,HVY,6MM,3H/PKG	01
RUBBER BANDS, SM,HVY, 4MM,3H/PKG	01
LIGATURE WIRE, S/S,28G,0.012"	01
Ligature wire,S/S,25GA.0.018	01
LIGATURE WIRE, S/S,22GA,0.025"	01
STAINLESS ARCH BAR CUTTER, SHA	01
GAUZE DIRECTOR & LIGATURE TUCK	02
SMITH WIRE CUTTER,STR,16CM,TC	01
WIRE TWISTER, DEL,STD,16CM,TC	01

BLEPHAROPLASTY TRAY
NUMBER OF TRAYS REQUIRED 3

DESCRIPTION	QUANTITY PER TRAY
<u>SUTURE & CUTTING INSTRUMENTS</u>	
MAYO SCISSORS, CURVED, 17CM,TC	01
HALSEY NDLHLDR, FINE, 13CM,S',TC	01
WEBSTER NH, SMOOTH,11.5CM,TC	01
<u>FORCEPS & HEMOSTATS</u>	
CASTROIEJO FCP, 1X2,09MM,10CM	01
BISHOP-HARMON FCPS,SEPS,SERR,B.5CM	01
ADSON FCPS,STD,12CM,4-3/4",TC	01
ADSON FORCEPS,1X2T,STD,15CM,TC	06
BACKHAUS TOWEL FCPS,9CM,3-1/2"	02
FOERSTER FCPS,STR, SERR,18CM,7"	02
HALSTED FORCEPS,STR,12.5CM,5"	04
HALSTED FORCEPS,CVD,12.5CM,5'	04
CRILE FORCEPS, STR,14CM,5-1/2'	02
MICRO FCPS,DELICATE,STR,12CM	02
MICROFCPS,DELICATE,CVD,12CM	02
BABY – ALIS TISSFCPS,4X5T,12M5C	01
ADSON FCPS,STD,12CM,4-3/4",TC	01
ADSON-BROWN FCPS,STD,12CM,TC	01
ADSON FORCEPS,1X2T,STD,15CM,TC	01
<u>RETRACTORS, RULERS & DISSECTORS</u>	
SALYER HOOK,STYLE # 2,17.5CM,7"	01
SALYER HOOK,STYLE #3,17.5CM,7"	01
FREER DOUBLE HOOK,SH,15CM,6"	01
WERTHER EYELID/ORBIT RIM RETR	01
BISHOP-HARMON FCPS,1X2T,8.5CM	01
BISHOP-HARMON FCPS,1X2T,8.5CM	01
FRAZIER SKIN HOOK,SH,13CM,5'	01
JOSEPH SINGLE HOOK, 2MM,HVY, 15CM,6"	01
JOSEPH DBL HOOK,2MM,HVY,16CM	01
LUER TRACHEAL RETR,S-SHAPE,11C	01
STAINLESS RULER, MM & IN,15CM,6	01
SENN RETR, DE, SHARP,16CM,6-1/4"	01
SENN RETR, DE,BLUNT,16CM,6-1/4"	01
CUSHING VEIN RETR,2X3T,SHARP,10CM	01
WEITLANER RETR,2X3T, SHARP,10CM	01
RAMIREZ GLAB-ZYG-MAND DISSECT	01

RAMIREZ MASSETER FASCIA DISSEC	01
RAMIREZ LATERAL ORBIT RIM DISS	01
RAMIREZ ANGLED FOREHEAD DISSEC	01
RAMIREZ TEMPORAL FASCIA DISSEC	01

SPECIAL INSTRUCTIONS:
PLASTIC SURGERY; CLEFT PALATE TRAY
NUMBER OF TRAYS REQUIRED 3

DESCRIPTION	QUANTITY PER TRAY
<u>SUTURE & CUTTING INSTRUMENTS</u>	
YANKAUER SUCTION TUBE,SS	01
FRAZIER SUCT TUBE, ANG,7FR, 17CM	02
SCALPEL HANDLE # 3,12.5CM,5"	02
SCALPEL HANDLE # 7,16.5CM61/2"	02
JETER CLEFTPALATE SCISS,RIGHT	01
JETER CLEFT PALATE SCISS, LEFT	01
DEAN SCISSORS, SERRATED, 17CM,6-	01
SCALPEL HANDLE # 7,16,5CM 61/2"	01
STEVENS SCISSORS, CVD, BLUNT,11	01
GOLDMAN-FOX SCISSORS,CVD,13CM	01
PARSCISSORS, CURVED,11,5CM,4-1	01
METZENBAUM SCISSORS, DEL, CVD,14	01
METZENBAUM SCISSORS, DEL,CVD,18	01
IRIS SCISSORS,STR,11,5CM,4-1/2	01
METZENBAUM SCISSORS, DEL, CVD,14	01
JOSEPH SCISSORS, CURVED,14CM,5-	01
PAR SCISSORS,STR, 11,5CM,4-1/2"	01
PAR SCISSORS, CURVED,11 5CM,4-1	01
STEVENS SCISSORS,CVD,BLUNT,11	01
KILNER SCISSORS,CVD,13CM,5"PO	01
F-L SCS,CVD,SER,20CM,PCTC	01
PC OP SCS,CV,S/B.SER,14,5CM,TC	01
MAYO SCISSORS, CURVED, 17CM,TC	01
<u>ELEVATORS & RONGUERS</u>	
JETER/WOODSON HARD PALATE ELE	01
JETER/WODSON HARD PALATE ELEV	01
JETER/KAPETANSKI CLEFT PALATE	01
JETER/KAPETANSKI HARD PALATE E	01
WOODSON ELEVATOR # 1	01
BEYER RONGEUR, 18CM,7'	01
MOLT PERIOSTEAL ELEVATOR #9	01
<u>FORCEPS & HEMOSTATS</u>	
BACKHAUS TOWEL FCPS,9CM,3-1/2"	06
FOERSTER FCPS, STR, SERR,18CM,7"	02
Halsted forceps,str,12.5cm,5"	02
Halsted forceps,cvd, 12.cm,5'	04
CRILE FORCEPS, STR, 14CM, 5-1/2"	04
NICRO FCPS, DELICATED,STR,12CM	02
MICRO FCPS, DELICATE, CVD,12CM	02
BABY-ALLIS TISSFCPS, 4X5T,12CM	02
ADSON FCPS, STD,12CM,4-3/4",TC	01
ADSON-BROWN FCPS,STD,12CM,TC	01

ADSON FORCEPS,1X2T,STD,15CM,TC	01
CUSHING FCP, AN,1X2,STD,18CM,TC	01
GENERAL FC,DEL,1X2,STD,18CM,TC	01
SEMKEN M-FCPS,1X2, FINE,18CM,TC	01
<u>RETRACTORS & RULERS</u>	
DINGMAN MOUTH GAS, COMPLETE	01
WERTHER EYELID/ORBIT RIM RETR	01
BISHOP- HARMON FCPS,SERR,8,5CM	01
BISHOP-HARMON FCPS, 1X2T,8,5CM	01
FRAZIER SKIN HOOK, HVY,13CM,5"	01
JOSEPH SINGLE HOOK, HVY,15CM,6'	01
JOSEPH DBL HOOK,2MM,HVY,16CM	01
LUER TRACHEAL RETR, S-SHAPE,11C	01
STAINLESS RULEP, MM & IN, 15CM,6	01
SENN RETR, DE,SHARP,15CM,6-1/4"	01
SENN RETR, DE, BLUNT,16CM,6-1/4"	01
CUSHING VEIN RETRACTOR,22,5CM	01
WEITLANER RETR, 2X3T,SHARP,10CM	01
UNULA HOOK FORCEPS,14,5CM,5-3/	01
GILLIES (CONVERSE) SKIN HOOK,S	01
RAMIREZ GLAB-ZYG-MAND DISSECT	01
RAMIREZ MASSETER FASCIA DISSEC	01
RAMIREZ LATERAL ORBIT RIM DISS	01
RAMIREZ ANGLED FOREHEAD DISSEC	01
RAMIREZ TEMPORAL FASCIA DISSEC	01
JETER PHARYNGEAL DISSECTOR	01
PHARYNGEAL DISSECTOR	01
<u>NEEDLE HOLDERS</u>	
JETER CLEFT PALATE NDLHLDR,14C	01
JETER PHARYNGEAL DISSECTOR	01
WEBSTER NH,DEL, MICRO,11,5CM,TC	01
HALSEY NDLHLDR, FINE,13CM,5",TC	01
CRILE-WOOD NH,FINE,18CM,7",TCM,7'	01
WEBSTER NH,SMOOTH,11-5CM,TC	01
<u>MISC:</u>	
ASPIRATING SYRINGE,1.8CC,"C-W"	01

PLASTIC SURGERY: RHINOPLASTY TRAY

NUMBER OF TRAYS REQUIRED 3

DESCRIPTION	QUANTITY PER TRAY
<u>SUTURE & CUTTING INSTRUMENTS</u>	
JOSEPH BUTTON KNIFE,STR,15CM	01
CONVERS BISTOURY KNIFE,15CM	01
JOSEPH BUTTON KNIFE, ANG,18CM	01
CAPLAN SEPTUM SCISSORS, ANGLED	01
JOSEPH NASAL SAW,STRAIGHT	01
FOMON LOWER LATERAL SCISS,11 CM	01
FRAZIER SUCT TUBE, ANG,9FR, 17CM	02
SCALPEL HANDLE # 3,12.5CM,5"	02
SCALPEL HANDLE # 7K.12CM 4-3/4"	02
ASPIRATING SYRINGE,1, 8CC,"C-W"	01

METZENBAUM SCISSORS, DEL, CVD,14	01
IRIS SCISSORS,STR,11,5CM,4	01
STEVENS SCISSORS,CVD,BLUNT,11	01
COTTLE DORSAL SCISSORS,16CM,6-	01
FOMON DOESAL SCISSORS, ANGLED,1	01
HALSEY NDLHLDR,FINE,13CM,5",TC	01
CRILE-WOOD NH,FINE,18CM,7",TC	01
<u>FORCEPS & HEMOSTATS</u>	
ASCH SEPTUM STRTING FCP,22,5CM	01
HALSTED FCPS,1X2T,STR,12CM,5	02
CRILE FORCRPS, CVD,16CM,6-1/4"	02
ADSON FCPS,STD,12CM,4-3/4",TC	01
ADSON FORCEPS,1X2T,STD,15CM,TC	01
REES BAYONET FCP,STD,16,5CM,TC	01
REES BAYONET FCP,STD,16,5CM,TC	01
<u>RETRACTORS</u>	
SINGLE SKIN HOOK, 13CM,5'	01
FOMON BALL-TIPPED RETR,17CM	01
JOSEPH DBL HOOK, 7MM,HVY,16CM	01
AUFRICHI PETR,45X10MM,18CM,7"	01
<u>ELEVATORS</u>	
COTTLETUNNEL ELEV, DE,CVD,22CM	01
MCKENTY SEPTUM ELEVATOR, CVD,4M	01
FREER SEPTUM ELEVATOR,18CM,7"	01
JOSEPH ELEVATOR,CVD,4MM,16CM	01
COTTLE SEPTUM ELEV,DE,22,5CM	01
<u>OSTEOTOMES</u>	
FRENCH PATTERN OSTEO, 2MM,15CM	01
FRENCH PATTERN OSTEO, 3MM,15CM	01
LIGHT WEIGHT MALLET,W/NYLON FAC	01
COTTLE OSTEO,STP,6MM,18 5CM	01
COTTLE OSTEO,STP,9MM,18 5CM	01
ANDERSON NEIVERT OSTEO,CVD LEF	01
ANDERSON NEIVERT OSTEO,CVD LEF	01
NEIVERT OSTEOTOME,SINGLE GUARD	01
SILVER OSTEOTOME,STRAIGHT,18.5	01
CINFLLI OSTEO, DOUBLE GUARD, STR	01
RUBIN OSTEO, W/STAB,10MM,16,5CM	01
RUBIN OSTEO, W/STAB,14MM,16,5CM	01
<u>SEPTUM DISPLACERS & MORSELIZERS</u>	
GUARD FOR RUBIN MORSELIZER	02
LOWER LATERAL MORSELIZER	01
GOLDMAN SEPTUM DISPLACER,19CM	01
<u>RASPS</u>	
GLABELLA RASP, CURVED, 18CM,7"	01
FOMON RASP, FLAT & CONVEX,22CM	01
DIAMOND PASP, FINE,STR,19CM	01
DIAMOND PASP, FINE,STR,19CM	01
AUFRICHT PASP,PUSH TYPE,20,5CM	01
AUFRICHT PASP,PUSH TYPE,20,5CM	01
FOMON RASP,FINE, DE,24CM,8-1/4'	01
FOMON RASP,FINE, DE,21CM	01

TRIMAS PASPW/SUCT,5MM,MALEABLE	01
TRIMAS PASPW/SUCT,8MM,MALEABLE	01

- **VARIOSURG**
- **OSCILLATING**
- **SAGITTAL**

BONE PLATING SYSTEM
MINI AND MAXI PLATES SYSTEM
THICKNESS 1.0.2.0 AND 2.5MUM

SPECIFICATION	QUANTITY
1. 4hole straight	400
2. 4hole straight long	400
3. 10hole straight	40
4. L shaped left	40
5. L shaped left	40
6. Y shaped	20

SCREWS FOR MINI AND MAXI PLATES

SPECIFICATION	QUANTITY
5.0mm	400
7.0mm	400
8.0mm	1000
10.0mm	600
12.0mm	400

3. SURGICAL INSTRUMENTS SETS FOR VASCULAR / THORACIC SURGERY

VSBI (VASCULAR SURGERY BASIC INSTRUMENT SET)

Total Number of Sets - 3

<u>ITEMS</u>	<u>QTY</u>
Scalple Handle # 3 B.P	2
Scalple Handle # 4	1
Scalple Handle # 7	1
Dissecting Forcep Block End Non-Tooth 6"	1
Dissecting Forcep Adson Tooth	1
Dissecting Forcep Adson Tooth	1
Dissecting Forcep Fine 7.5"	1
Dissecting Forcep Gillies	2
Dissecting Forcep Debakey 6"	2
Dissecting Forcep Lane Tooth	1
Dissecting Adson Non Tooth	2
Debakey D/F 8"	2
Scissor Mayo St 6"	1
Scissor MET CVD	1
Met Scissor 7"	1
Scissor Pott 7.5"	1
Scissor Mayo CVD 6.5"	1
Scissor Met Straight 7" Golden	1
Needle Holder Mayo 6"	1
Needle Holder Debakey 7"	1
Needle Holder Debakey 6"	2
Needle Holder Debakey 5"	1
Artery Forcep Mosquito Straight 4.5	5
Artery Forcep Mosquito Curve 4.5	5
Artery Forcep Crile CVD 5.5	10
Artery Forcep Kocher Straight 8	2
Artery Forcep Kocher Curved 8	2
Artery Forcep Lahey Curved 7.5	2
Artery Forcep Spencer Well Straight 6	2
Artery Forcep Spencer Well ST 8	2
Artery Forcep Lahey CVD 5	2
Tissue Forcep Allis 6	4
Artery Forcep Full COF	2
Artery Forcep Adson 7"	2
Retractor Travers	2
Retractor Richardson Medium	3
Retractor Langenback Medium	2
Retractor West Self 5	2
Retractor Kilner Skin	2

Retractor Langeback Large	2
Retractor Deaver Small	2
Retractor Lengenback Small	2
Retractor Richerdson Small	1
Retractor Richerson Large	2
Towel Clip 3.5	8
Trocar	1
Suction Tube Yankaur	1
Scoop Volkman	1
Stainless Steel Galipot2	2
Diathermy Quiver	1
Tray Kidney Plastic 250mmx115mm	2

MVAS – MICRO VASCULAR ADDITIONAL SET

Total Number of Sets - 3

<u>ITEMS</u>	<u>QTY</u>
Micro Tissue Forcep straight 21 cm	2
Micro Tissue Forcep Straight 18cm	2
Tissue Forcep Gerald Cross straight 1mm	2
Needle Holder Durogrip straight 0.4	1
Scissor Dietrich Pots Vesse1120 DG	1
Needle Holder Micro	1
Needle Holder	1
Needle Holder Micro Vascular	1
Needle Holder Micro Vascular	1
Needle Holder Micro Titainium	1
Clamp Vascular Straight	1
Clamp Vascular CVD	1
Clamp Bulldog Curved	1
Canula Vesel	1
Clamp Bulldog straight 3.5	1
Clamp Bulldog Micro Straight	2
Clamp Bulldog Micro CVD	2
Clamp Bulldog Straight	2
Clamp Bulldog CVD	2
Side Clamp	2
Aneursym Holding Forcep	2

VASCULAR SET

Total Number of Sets - 2

Dissecting Forcep Debakey 6"	2
Dissecting Forcep Debakey 8"	2
Dissecting Forceps Gillies Tooth	2

Scissor POTT Smith 7"	1	
Scissor Pott Smith 7"	1	
Scissor Met CVD 6.5"	1	
Scissor Met CVD Golden 7"	1	
Scissor Met CVD 7.5"	1	
Mayo Scissor CVD 6.5	1	
Needle Holder Debakey Golden 5"	1	
Needle Holder Micron 5"	1	
Applicator Liga Clip Gray Large	1	
Applicator Liga Clip Small Blue	1	
Applicator Liga Clip White	1	
Clamp Debakey Vascular 4.5"	1	
Clamp Debakey Vascular 8.5" 90Angle	1	
Clamp Debakey Vascular 7.5" 45Angle	1	
Clamp Debakey Vascular 7.5" 30 Angle	1	
Clamp Debakey Stans Key 7.5"	1	
Clamp Debakey Vascular Stanskey 6.5"		2
Clamp Debakey Vascular 6.4" Cobra Angle		1
Clamp Debakey Vascular 6.5" 15C Angle		1
Clamp Debakey Vascular St 7.5"	1	
Clamp Debakey VascularCVD5"	1	
Clamp Debakey Vascular Angles 5"	1	
Clamp Cooley Vascular Angled 7"	1	
Clamp Cooley Vascular 10.5"	1	
Clamp Cooley Vascular 6"	1	
Clamp Cooley Vascular 6.4"	1	
Clamp Cooley Vascular Cobra Angle 7.5"	1	
Clamp Cooley Vascular 75 Angles 5.5"	1	
Clamp Bulldog Straight 4"	1	
Clamp Bulldog Curved 4"	1	
Bulldog Clamp Debakey CVD 3.5"	1	
Bulldog Clamp Debakey St 3.5"	1	
Retractor Travers	2	
Retractor West Self 5	2	
Dissector Watson Hyne	1	
Hook Nerve Blunt	1	
Forcep Aligator Crocodile	1	
Scale 8"	1	

4. SURGICAL INSTRUMENTS SETS FOR ORTHOPAEDIC SURGERY

S. NO	NOMENCLATURE	QTY
ADVANCE TRAUMA SYSTEM		
A	Basic Instrument Set for LC DCP, DCP , DLS and LCP in Vario Case	2
	Content of :	
	Vario Case for Basic Instrument Set LC-DCP and DCP, without Lid, without Contents	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Tap for Cortex Screws Ø 4.5 mm, length 125/70 mm	2
	Double Drill Guide 4.5/3.2	1
	Tap for Cancellous Bone Screws Ø 6.5 mm, length 195 mm	1
	Double Drill Guide 6.5/3.2	1
	Drill Bit Ø 3.2 mm, length 145/120 mm, 2-flute, for Quick Coupling	3
	Drill Bit Ø 4.5 mm, length 145/120 mm, 2-flute, for Quick Coupling	2
	Drill Sleeve Insert 4.5/3.2, length 80 mm, for long Lag Screws	1
	DCP Drill Guide 4.5, for neutral and load position	1
	LC-DCP Drill Guide 4.5, for neutral and load position	1
	Universal Drill Guide 4.5/3.2, for neutral and load position	1
	Depth Gauge for Screws Ø 4.5 to 6.5 mm, measuring range up to 110 mm	1
	Screwdriver Shaft, hexagonal, large, Ø 3.5 mm	1
	Screwdriver, hexagonal, large, Ø 3.5 mm, with Groove, length 240 mm	1
	Holding Sleeve, large	1
	T-Handle with Quick Coupling	1
	Countersink, large, length 180 mm, for Cortex Screws Ø 4.5 mm	1
	Sharp Hook, length 155 mm	1
	Tension Device, articulated, span 20 mm	1
	Combination Wrench Ø 11.0 mm	1
	LCP Drill Sleeve 5.0, for Drill Bits Ø 4.3 mm	1
	LCP Drill Bit Ø 4.3 mm with Stop, length 221 mm, 2-flute, for Quick Coupling	1
	LCP Universal Drill Guide 4.5/5.0	1
	Bending Template for LC-DCP 4.5 and DCP 4.5, length 120 mm	1
	Bending Template for LC-DCP 4.5 and DCP 4.5, length 155 mm	1
	Bending Template for LC-DCP 4.5 and DCP 4.5, length 210 mm	1
B	Small Fragment LC-DCP, DCP, DLS and LCP Instrument Set in Graphic Case	2
	Content of :	
	Graphic Case for Small Fragment Instrument Set DCP, without Contents	1
	Tap for Cortex Screws Ø 3.5 mm, length 110/50 mm	2
	Tap for Cancellous Bone Screws Ø 4.0 mm, length 110/85 mm	2

	Drill Bit Ø 2.5 mm, length 110/85 mm, 2-flute, for Quick Coupling	3
	Drill Bit Ø 3.5 mm, length 110/85 mm, 2-flute, for Quick Coupling	2
	DCP Drill Guide 3.5, for neutral and load position	1
	Drill Sleeve Insert 3.5/2.5, length 42 mm	1
	Double Drill Guide 3.5/2.5	1
	Triple Drill Guide 2.0, with 3 holes	1
	Depth Gauge for Screws Ø 2.7 to 4.0 mm, measuring range up to 60 mm	1
	Screwdriver, hexagonal, small, with Holding Sleeve	1
	Screwdriver Shaft, hexagonal, small, Ø 2.5 mm	1
	Handle with Quick Coupling, length 110 mm	1
	Screw Forceps, self-holding, length 85 mm	1
	Sharp Hook, length 155 mm	1
	Bending Iron for Plates 2.4 to 3.5, length 145 mm	1
	Bending Iron for Plates 2.4 to 3.5, length 145 mm	1
	Bending Template for LC-DCP 3.5 and DCP 3.5, length 87 mm	1
	Bending Template for LC-DCP 3.5 and DCP 3.5, length 114 mm	1
	Bone Holding Forceps, self-centering, speed lock, length 190 mm	1
	Reduction Forceps with Points, ratchet lock, length 130 mm	1
	Reduction Forceps, toothed, ratchet lock, length 140 mm	1
	Reduction Forceps, with Points, wide, soft lock, length 127 mm	1
	Reduction Forceps, toothed, soft lock, length 146 mm	1
	Bone Holding Forceps, self-centering, soft lock, length 191 mm	1
	Bone Lever, width 15 mm, length 160 mm	2
	Bone Lever, small, short narrow tip, width 8 mm, length 160 mm	1
	Periosteal Elevator, slightly curved blade, straight edge, width 6 mm, length 187/87 mm	1
	Bone Lever, small, short narrow tip, width 6 mm, length 160 mm	1
	Countersink 3.5	1
	LC-DCP Drill Guide 3.5, for neutral and load position	1
	LCP Drill Sleeve 3.5, for Drill Bits Ø 2.8 mm	1
	LCP Drill Bit Ø 2.8 mm with Stop, length 165 mm, 2-flute, for Quick Coupling	1
	Bone Holding Forceps, self-centering, soft lock, length 191 mm	1
	DLS Drill Guide 3.7, for Drill Bits Ø 3.1 mm	1
	DLS Drill Bit Ø 3.1 mm, length 165 mm, 2-flute, for Quick Coupling	1
	Drill Bit ø3.1 w/Stop calibr L250/225	1
	Locking Drill Sleeve ø3.1 percut	1
C	DHS / DCS Instrument Set with one step insertion latest in Vario Case	2
	Content of :	
	Vario Case for DHS/DCS Instrument Set, without Lid, without Contents	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	DHS/DCS Tap	1
	DHS Triple Reamer, complete, with long Reamer	1
	DHS/DCS T-Handle with Quick Coupling	1

	DHS Angled Guide 135°	1
	DHS Angled Guide 150°	1
	DHS/DCS Direct Measuring Device	1
	DHS/DCS Wrench	1
	DHS/DCS Impactor	1
	DHS/DCS Centering Sleeve, short	1
	DHS/DCS Centering Sleeve, long	1
	DHS/DCS Guide Wire Ø 2.5 mm with threaded tip with trocar, length 230 mm	10
	Connecting Screw, short	1
	Guide Shaft, for Insertion of DHS/DCS Screws	1
	Connecting Screw, long	1
	DCS Triple Reamer, complete	1
	DCS Angled Guide	1
	DHS/DCS Wrench, for One-step Insertion Technique	1
	Connecting Screw, for DHS/DCS Wrench	1
	DHS/DCS Centering Sleeve	1
	DHS/DCS Impactor, for One-step Insertion Technique	1
D	Instrument Set for Cannulated Screws 7.3mm in Vario Case	1
	Content of :	
	Vario Case for Instrument Set for Cannulated Screws Ø 6.5/7.3 mm, without Lid, without Contents	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Drill Bit Ø 5.0 mm, cannulated, length 300/250 mm, 3-flute, for Quick Coupling	1
	Parallel Guide for Guide Wires Ø 2.8 mm, adjustable	1
	Trocar Ø 2.8 mm	1
	Protection Sleeve 12.0/8.5	1
	Drill Sleeve 8.5/2.8	1
	Protection Sleeve 15.5/13.0	1
	Screwdriver, hexagonal, cannulated, for Cannulated Screws Ø 6.5 and 7.3 mm	1
	Holding Sleeve, large	1
	Cleaning Brush Ø 2.9 mm, for Cannulated Instruments	1
	Holding Clip for Washers	1
	Cleaning Stylet Ø 2.8 mm, for Cannulated Instruments	1
	Direct Measuring Device for Guide Wires Ø 2.0 and 2.8 mm, length 300 mm	1
	Screw Forceps, self-holding, length 85 mm	1
	Reduction Forceps, large, with Points, soft lock, length 222 mm	1
	Guide Wire Ø 2.8 mm with threaded tip with trocar, length 300 mm, for Cannulated Screws Ø 6.5 and 7.3 mm, Stainless Steel	10
E	Interlocking Instrument Set for Femur and Tibia in Sterilizing Tray with Insertion and Locking Instruments (SYNTHES)	2
	Content of :	
	Vario Case, Framing with Bottom, size 1/1, height 67 mm	1

	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Guide Rod Ø 3.0 mm, with flat tip, length 950 mm	1
	Pin Wrench Ø 4.5 mm, length 120 mm	1
	Combination Wrench Ø 11.0 mm	1
	Socket Wrench Ø 11.0 mm, cannulated	1
	Driving Piece, curved	1
	Driving Head	1
	Hammer Guide, cannulated, for Universal Medullary Nails	1
	Holding Rod Ø 4.5 mm, length 400 mm	1
	Ram	1
	Handle, flexible	1
	Insertion Handle, for Femoral Medullary Nails Ø 9.0 to 12.0 mm	1
	Insertion Handle, for Tibial Medullary Nails Ø 9.0 to 14.0 mm	1
	Insertion Handle, for Femoral Medullary Nails Ø 13.0 to 16.0 mm	1
	Insertion Handle, for Femoral Medullary Nails Ø 17.0 to 19.0 mm	1
		1
	Threaded Bolt, conical, for Femoral Medullary Nails Ø 9.0 to 12.0 mm	1
		1
	Threaded Bolt, conical, for Tibial Medullary Nails Ø 10.0 to 14.0 mm	1
		1
	Threaded Bolt, conical, for Femoral Medullary Nails Ø 13.0 to 16.0 mm	1
		1
	Threaded Bolt, conical, for Femoral Medullary Nails Ø 17.0 to 19.0 mm	1
	Nut, knurled, for Femoral Medullary Nails Ø 9.0 to 12.0 mm	1
	Nut, knurled, for Tibial Medullary Nails Ø 10.0 to 14.0 mm	1
	Nut, knurled, for Femoral Medullary Nails Ø 13.0 to 16.0 mm	1
	Nut, knurled, for Femoral Medullary Nails Ø 17.0 to 19.0 mm	1
	Drill Bit Ø 3.2 mm, length 225/200 mm, 2-flute, for Quick Coupling	2
		2
	Drill Bit Ø 4.0/4.5 mm, length 225/200 mm, 2-flute, for Quick Coupling	2
	Drill Bit Ø 4.5 mm, length 145/120 mm, 2-flute, for Quick Coupling	2
	Drill Sleeve 8.0/4.5	1
	Drill Sleeve Insert 3.2	1
	Trocar Ø 8.0 mm	1
	Aiming Trocar	1
	Depth Gauge for Locking Bolts, measuring range up to 90 mm	1
		1
	Screwdriver, hexagonal, large, Ø 3.5 mm, with Groove, length 240 mm	1
	Distal Aiming Device	1
	Direction Finder	1
	Fixation Bolt for Femur	1
	Protection Sleeve 11.0/8.0	1
	Holding Sleeve, large	1
	Fixation Bolt for Tibia	1
F	SynReam Instrument Set in SYNCASE (Single Shaft Assembly all reamer Heads must Attached To the Same single	2

	Shaft.)	
	Content of :	
	Lower Tray, for SynReam Instruments	1
	Upper Tray, for SynReam Instruments	1
	Lid	1
	Tray for Medullary Reamer Head	1
	T-Handle with Quick Coupling	1
	Holding Forceps for SynReam Reaming Rod Ø 2.5 mm	1
	Reverse Awl, small	1
	Tissue Protector	1
	Centering Pin Ø 4.0 mm, length 400 mm	1
	Insert with Removing Device for SynReam Medullary Reamers, for Vario Case	1
	SynReam Reaming Rod Ø 2.5 mm, long, length 1150 mm	10
	SynReam Flexible Shaft	1
	SynReam Medullary Reamer Head Ø 8.5 mm	1
	SynReam Medullary Reamer Head Ø 9.0 mm	1
	SynReam Medullary Reamer Head Ø 9.5 mm	1
	SynReam Medullary Reamer Head Ø 10.0 mm	1
	SynReam Medullary Reamer Head Ø 10.5 mm	1
	SynReam Medullary Reamer Head Ø 11.0 mm	1
	SynReam Medullary Reamer Head Ø 11.5 mm	1
	SynReam Medullary Reamer Head Ø 12.0 mm	1
	SynReam Medullary Reamer Head Ø 12.5 mm	1
	SynReam Medullary Reamer Head Ø 13.0 mm	1
	SynReam Medullary Reamer Head Ø 13.5 mm	1
	SynReam Medullary Reamer Head Ø 14.0 mm	1
	SynReam Medullary Reamer Head Ø 14.5 mm	1
	SynReam Medullary Reamer Head Ø 15.0 mm	1
	SynReam Medullary Reamer Head Ø 15.5 mm	1
	SynReam Medullary Reamer Head Ø 16.0 mm	1
	SynReam Medullary Reamer Head Ø 16.5 mm	1
	SynReam Medullary Reamer Head Ø 17.0 mm	1
	Universal Chuck with T-Handle	1
	Cutter for UTN/CTN and for Universal Medullary Nail, Ø 11.0 mm, length 350 mm	1
	Protection Sleeve	1
	Hand Reamer for Medullary Canal Ø 6.0 mm	1
	Hand Reamer for Medullary Canal Ø 7.0 mm	1
	Hand Reamer for Medullary Canal Ø 8.0 mm	1
	Reduction Head, straight	1
	Reduction Head, angled	1
G	Basic Pelvic Instrument Set in Vario Case	1
	Content of :	
	Vario Case for Basic Pelvic Instrument Set, without Lid, without Contents	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1

	Drill Bit Ø 3.5 mm, length 195/170 mm, 2-flute, for Quick Coupling	2
	Drill Bit Ø 4.5 mm, length 195/170 mm, 2-flute, for Quick Coupling	2
	Tap for Cortex Screws Ø 3.5 mm, calibrated, length 175 mm	2
	Tap for Cortex Screws Ø 4.5 mm, calibrated, length 175 mm	1
	Holding Sleeve, for Nos. 314.070, 314.550 and 314.570	1
	Screwdriver, hexagonal, large, Ø 3.5 mm, with Groove, length 300 mm	1
	Holding Sleeve, large	1
	Screwdriver Shaft, hexagonal, small, Ø 2.5 mm, length 165 mm, for Quick Coupling	1
	Screwdriver Shaft, hexagonal, large, Ø 3.5 mm, length 165 mm, for Quick Coupling	1
	Screwdriver, hexagonal, small, Ø 2.5 mm, length 270 mm	1
	Drill Bit Ø 4.5 mm, length 195/170 mm, 3-flute, for Quick Coupling	2
	Drill Bit Ø 2.5 mm, calibrated, length 230/205 mm, 3-flute, for Quick Coupling	2
	Drill Bit Ø 3.2 mm, calibrated, length 230/205 mm, 3-flute, for Quick Coupling	2
	Depth Gauge for Long Screws Ø 3.5 mm, measuring range up to 110 mm	1
	Bending Iron for Reconstruction Plates 3.5 and 4.5, length 190 mm	2
	Bending Pliers for Reconstruction Plates 2.7 and 3.5	1
	Bending Template for Straight Reconstruction Plates 3.5	1
	Bending Template for Curved Reconstruction Plates 3.5	1
	Bending Template for Straight Reconstruction Plates 4.5, to be cut	1
H	Pelvic Reduction Instrument Set in Vario Case	1
	Content of :	
	Vario Case for Pelvic Reduction Instrument Set, without Lid, without Contents	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Universal Chuck with T-Handle	1
	Bone Hook, sharp, medium, length 230 mm	1
	Bone Hook, sharp, large, length 200 mm	1
	Ball Spike, with pointed ball tip, length 300 mm	1
	Pelvic Retractor, blunt	1
	Spiked Disc, for Reduction Forceps	1
	Pelvic Reduction Forceps, small, length 190 mm, for use with Cortex Screws Ø 3.5 and 4.5 mm	1
	Pelvic Reduction Forceps, medium, length 250 mm, for use with Cortex Screws Ø 3.5 and 4.5 mm	1
	Pelvic Reduction Forceps, angled, small, with pointed ball tips, speed lock, length 190 mm	1
	Pelvic Reduction Forceps, angled, large, with pointed ball tips, speed lock, length 230 mm	1
	Pelvic Reduction Forceps, long, with pointed ball tips, speed lock, length 400 mm	1
	Pelvic Reduction Forceps, long, with three pointed ball tips, speed lock, length 400 mm	1
	Pelvic Reduction Forceps, large, adjustable, speed lock, length 300 mm	1

	Pelvic Reduction Forceps, with angled pointed ball tips, speed lock, length 250 mm	1
	Reduction Forceps, large, with Points, ratchet lock, length 200 mm	1
	Schanz Screw Ø 6.0 mm, length 190/50 mm, Stainless Steel	1
I	Reduction Forceps Set (Modular Tray Longitudinal)	1
	Content of :	
	Modular Tray longitudinal without Lid, without Contents	1
	Vario Case, Framing, size 1/1, height 67 mm	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Bone Holding Forceps, self-centering, soft lock, length 239 mm	1
	Bone Holding Forceps, self-centering, soft lock, length 258 mm	1
	Bone Holding Forceps, self-centering, speed lock, length 240 mm	1
	Bone Holding Forceps, self-centering, speed lock, length 260 mm	2
	Bone Holding Forceps, self-centering, speed lock, length 280 mm	2
	Reduction Forceps, toothed, speed lock, length 240 mm	1
	Reduction Forceps, toothed, speed lock, length 170 mm	1
	Reduction Forceps with Points, ratchet lock, length 166 mm	1
	Reduction Forceps, large, with Points, ratchet lock, length 200 mm	2
J	Wire Instrument Set (Modular Tray Transv)	1
	Content of :	
	Modular Tray transv without Lid, without Contents	1
	Vario Case, Framing, size 1/1, height 67 mm	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Drill Bit Ø 2.0 mm, length 100/75 mm, 2-flute, for Quick Coupling	1
	Triple Drill Guide 2.0, with 3 holes	1
	Holding Forceps for Cerclage Wires, length 170 mm	2
	Wire Bending Pliers, length 155 mm, for Wires up to Ø 1.25 mm	1
	Parallel Pliers, flat-nosed, length 160 mm	1
	Wire Cutter, short, length 175 mm	1
	Wire Cutter, large, with multiplication, length 220 mm	1
	Wire Passer, bending diameter 45 mm	1
	Wire Passer, bending diameter 70 mm	1
	Wire Tightener, length 230 mm	1
	Bending Iron for Kirschner Wires, for Wires Ø 1.25 to 2.5 mm	1
	CerclageFix Insert, Stainless Steel	4
		2
	Cerclage Wire Ø 1.0 mm with Eye, length 280 mm, Stainless Steel	
		1
	Cerclage Wire Ø 1.25 mm with Eye, length 280 mm, Stainless Steel	
	Coil with Cerclage Wire Ø 1.0 mm, length 10 m, Stainless Steel	1
	Coil with Cerclage Wire Ø 1.25 mm, length 10 m, Stainless Steel	1
		2
	Kirschner Wire Ø 1.0 mm with trocar tip, length 150 mm, Stainless Steel	
		2
	Kirschner Wire Ø 1.25 mm with trocar tip, length 150 mm, Stainless Steel	

	Kirschner Wire Ø 1.6 mm with trocar tip, length 150 mm, Stainless Steel	2
	Kirschner Wire Ø 1.8 mm with trocar tip, length 150 mm, Stainless Steel	2
	Kirschner Wire Ø 2.0 mm with trocar tip, length 150 mm, Stainless Steel	2
	Kirschner Wire Ø 2.5 mm with trocar tip, length 150 mm, Stainless Steel	2
	Cerclage Positioning Pin for LCP 3.5 and LC-DCP 3.5, Stainless Steel	1
	Reduction Forceps, large, with Points, soft lock, length 222 mm	1
	Patella Forceps, soft lock, length 171 mm	1
K	Chisel and Impactor Set	1
	Content of :	
	Modular Tray f/Chisel+Impactor Set without Lid, without Contents	1
	Vario Case, Framing, size 1/1, height 67 mm	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Handle with Quick Coupling	1
	Cancellous Bone Impactor Ø 6.0 mm, round	1
	Cancellous Bone Impactor Ø 6.0 mm, round, flattened	1
	Cancellous Bone Impactor Ø 8.0 mm, round	1
	Cancellous Bone Impactor, rectangular, 6 x 16 mm	1
	Cancellous Bone Impactor, rectangular, 10 x 20 mm	1
	Cancellous Bone Impactor, rectangular, 10 x 30 mm	1
	Gouge, curved, width 10 mm	1
	Gouge, curved, width 15 mm	1
	Chisel, flat, straight, width 16 mm	1
	Chisel Handle	1
	Chisel Blade, width 16 mm	1
	Chisel Blade, width 25 mm	1
L	F-Tool Instrument Set with General Instrument Set	1
	Content of :	
	F-Tool for Reduction, large	1
	F-Tool for Reduction, small	1
	Modular Tray for Gen/Instr Set without Lid, without Contents	1
	Vario Case, Framing, size 1/1, height 67 mm	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Bone Hook, sharp, small, length 230 mm	1
	Bone Hook, sharp, medium, length 230 mm	1
	Bone Lever, short narrow tip, width 8 mm, length 220 mm	2
	Bone Lever, short narrow tip, width 18 mm, length 235 mm	2
	Bone Lever, with long, wide tip, width 24 mm, length 270 mm	1
	Periosteal Elevator, curved shaft, round edge, width 14 mm, length 190/75 mm	1
	Periosteal Elevator, slightly curved blade, round edge, width 6 mm, length 190/90 mm	1

	Periosteal Elevator, straight shaft, round edge, width 14 mm, length 202/80 mm	1
	Hammer 500 g	1
	Chisel Handle	1
	Chisel Blade, width 10 mm	1
	Chisel Blade, width 16 mm	1
	Chisel Blade, width 25 mm	1
	Gouge for Cancellous Bone Graft, curved, width 10 mm, length 265/125 mm	1
M	Instrument Set for the Removal of Damaged Screw	1
	Content of :	
	Vario Case, Framing with Bottom, size 1/1, height 67 mm	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Hollow Reamer, complete, anticlockwise cutting, for Screws Ø 3.5 and 4.0 mm	1
	Spare Reamer Tube, for No. 309.035	1
	Extraction Bolt, for Screws Ø 3.5 and 4.0 mm	1
	Extraction Screw, conical, for Screws Ø 2.7, 3.5 and 4.0 mm	1
	Hollow Reamer, complete, anticlockwise cutting, for Screws Ø 4.5 mm	1
	Spare Reamer Tube, for No. 309.450	1
	Extraction Bolt, for Screws Ø 4.5 and 5.0 mm	1
	Extraction Screw, conical, for Screws Ø 4.5 and 6.5 mm	1
	Hollow Reamer, complete, anticlockwise cutting, for Screws Ø 5.0, 6.0, 6.5 and 7.0 mm	1
	Spare Reamer Tube, for No. 309.065	1
	Extraction Bolt, for Screws Ø 6.0, 6.5 and 7.0 mm	1
	Aluminium Plate, anodized, with application diagram, for Instrument Set for Removal of Damaged Screws	1
	Sharp Hook, length 155 mm	1
	Pliers for Screw Removal, length 205 mm	1
	Gouge, width 10 mm, length 205/90 mm	1
	T-Handle with Quick Coupling	1
N	Instrument Set for Cannulated Screw B 4.0 mm (Stainless Steel) in Vario Case	1
	Content of :	
	Vario Case for Instrument Set for Cannulated Screw Ø 4.0 mm, without Lid, without Contents	1
	Lid for Vario Case	1
	Drill Bit Ø 2.7/1.35 mm, cannulated, length 160/130 mm, 4-flute, for Quick Coupling	1
	Countersink, cannulated, for Cannulated Screws Ø 3.5 and 4.0 mm	1
	Handle with Quick Coupling, length 110 mm	1
	Double Drill Guide 2.7/1.25	1
	Screwdriver Shaft, hexagonal, small, Ø 2.5 mm	1
	Holding Sleeve	1
	Screwdriver, hexagonal, cannulated, for Cannulated Screws Ø 3.5 and 4.0 mm	1

	Direct Measuring Device for Cannulated Screws Ø 4.0 mm, measuring range up to 72 mm	1
	Cleaning Stylet Ø 1.25 mm, for Cannulated Instruments	1
	Holding Clip for Washers	1
	Screw Forceps, self-holding, length 85 mm	1
	Guide Wire Ø 1.25 mm with threaded tip with trocar, length 150 mm, Stainless Steel	10
O	Hand Instrument Set Consisting of:	1
	Graphic Case for Mini Instrument Set with Stainless Steel Implants, without Contents	1
	Drill Bit Ø 2.7 mm, length 100/75 mm, 2-flute, for Quick Coupling	2
	Drill Bit Ø 2.0 mm, length 100/75 mm, 2-flute, for Quick Coupling	2
	Drill Bit Ø 1.5 mm, length 85/60 mm, 2-flute, for Quick Coupling	2
	Drill Bit Ø 1.1 mm, length 60/35 mm, 2-flute, for Quick Coupling	2
	Countersink 2.7, length 62 mm	1
	Countersink 1.5 to 2.4, length 52 mm, for Mini Quick Coupling	1
	Tap for Cortex Screws Ø 1.5 mm, length 50/20 mm	2
	Tap for Cortex Screws Ø 2.0 mm, length 53/24 mm	2
	Tap for Cortex Screws Ø 2.7 mm, length 100/33 mm	2
	Handle with Mini Quick Coupling	1
	Handle with Mini Quick Coupling, Stainless Steel	1
	Handle with Quick Coupling, length 110 mm	1
	Double Drill Guide 1.5/1.1	1
	Triple Drill Guide 2.0, with 3 holes	1
	Double Drill Guide 2.0/1.5	1
	Double Drill Guide 2.7/2.0	1
	Screwdriver, hexagonal, small, with Holding Sleeve	1
	Screwdriver Shaft, hexagonal, small, Ø 2.5 mm	1
	Holding Sleeve	1
	Screwdriver Shaft, hexagonal, for Screws Ø 1.5 and 2.0 mm	1
	Depth Gauge for Screws Ø 2.7 to 4.0 mm, measuring range up to 60 mm	1
	Depth Gauge for Screws Ø 1.5 to 2.0 mm, measuring range up to 38 mm	1
	Sharp Hook, length 155 mm	1
	Screw Forceps, self-holding, length 85 mm	1
	Bending Pliers for Plates 1.5 to 2.7, length 140 mm	1
	Wire Bending Pliers, length 155 mm, for Wires up to Ø 1.25 mm	1
	Cutting Pliers for Plates 1.5 to 2.7, length 256 mm	1
	Wire Cutter, short, length 175 mm	1
	Bending Iron for Kirschner Wires, for Wires Ø 0.8 to 1.25 mm	1
	Reduction Forceps with Points, narrow, ratchet lock, length 132 mm	1
	Reduction Forceps with Points, narrow, ratchet lock, length 132 mm	1

	Stagbeetle Forceps, ratchet lock, length 120 mm	1
	Holding Forceps for Small Plates, ratchet lock, length 135 mm	1
	Holding Forceps for Finger Plates, ratchet lock, length 135 mm	1
	Holding Forceps for Finger Plates, ratchet lock, length 135 mm	1
	Bone Lever, small, short narrow tip, width 6 mm, length 160 mm	1
	Bone Lever, small, short narrow tip, width 8 mm, length 160 mm	1
	Bone Lever, width 15 mm, length 120 mm, end of handle ring-shaped	1
	Periosteal Elevator, slightly curved blade, straight edge, width 3 mm, length 187/87 mm	1
	Reduction Forceps with Points, ratchet lock, length 130 mm	1
	Handle with Quick Coupling, length 110 mm	1
	Screwdriver, hexagonal, small, with Holding Sleeve	1
	Screwdriver Shaft, hexagonal, small, Ø 2.5 mm	1
	Screwdriver, hexagonal, small, Ø 2.5 mm, with Groove	1
P	Large External Fixators Sets	1
	Consisting of :	
	Vario Case for Large External Fixator, without Lid, without Contents	1
	Lid (Stainless Steel), size 1/1, for Vario Case	1
	Trocar Ø 3.5 mm, short	1
	Drill Sleeve 5.0/3.5, short	1
	Drill Sleeve 6.0/5.0, short, with thread	1
	Trocar Ø 3.5 mm, long	1
	Drill Sleeve 5.0/3.5, long	1
	Drill Sleeve 6.0/5.0, long, with thread	1
	Handle for Drill Sleeve	1
	Combination Wrench Ø 11.0 mm	1
	Socket Wrench Ø 11.0 mm, cannulated	1
	Universal Chuck with T-Handle	1
	Adapter for Seldrill Schanz Screw Ø 5.0 mm	1
	Compressor, open	2
Q	Bending Press and Bending Irons Sets Complete	1
	Content of :	
	Bending Press, length 400 mm	1
	Bending Iron for LC-DCP 4.5 and DCP 4.5, length 250 mm	2
	Bending Iron for Plates 2.4 to 3.5, length 145 mm	1
	Bending Iron for Plates 2.4 to 3.5, length 145 mm	1
	Bending Iron for Reconstruction Plates 3.5 and 4.5, length 190 mm	2
	Bending Pliers for Plates 2.4 to 4.0, length 230 mm	1
R	Air Pen Drive for Hand Surgery	1
	Content of :	
	Air Pen Drive 60.000 rpm	1
	Double Air Hose, length 3 m, for Air Pen Drive	1
	Hand Switch, for Air Pen Drive	1

	Kirschner Wire Attachment, for EPD and APD	1
	Drill Attachment with Mini Quick Coupling, for EPD and APD	1
	Sagittal Saw Attachment, for EPD and APD	1
	Saw Blade 15 x 6.0 x 0.38 mm, for Sagittal Saw, sterile	1
	Saw Blade 22 x 8.0 x 0.38 mm, for Sagittal Saw, sterile	1
	Saw Blade 31 x 10 x 0.38 mm, for Sagittal Saw, sterile	1
	Saw Blade 27 x 6.0 x 0.6 mm, for Sagittal Saw, sterile	1

5. SURGICAL INSTRUMENTS SETS FOR GENERAL SURGERY

MAJOR SET (GENERAL SURGERY) TOTAL NUMBER OF SETS – 20

S.#	NAME OF INSTRUMENT	QTY	S.N	NAME OF INSTRUMENT	QTY
01	B.P.KNNIFE HANDLE # 3.4.7	03	26	COCHER CLAMP (CVD) 6”&-8”	04+4=8
02	MET SCISSOR 6’,6 ½,7 1/1” 9” (ST)	04	27	SPENCER WELL (ST)	04
03	MET SCISSOR 6 ½”9”10” (CVD)	04	28	SPENCER WELL (CVD)	04
04	MAYO SCISSOR 5”,6” (ST)	02	29	MOSQUITO ARTERY FORCEPS St)	10
05	MAYO SCISSOR5 ‘6”	02	30	MOSQUITO ARTERY FORCEPS CVD	10
06	MAYO NEEDLE HOLDER 5 ‘6”	02	31	Crile artery forceps (ST)	10
07	MAYO NEEDLE HOLDER 7’	02	32	Crile artery forceps (ST)	10
08	MAYO NEEDLE HOLDER 8”9”	02	33	PEANUT FORCEPS	02
09	ADSOND/F (TOOTH)	02	34	LAHEY A/F 8’,9”	02
10	ADSON D/F (TOOTH)	02	35	ARTERY FORCEPS 9ST0 LONG	04
11.	BEBKEY D/F 7”,8”	02	36	ARTERY FORCEPS (CVD0 LONG	04
12	D/F TOOTH 5’,8”	02	37	SPONGE HOLDER	04
13	D/F PLAIN 6”,7’	02	38	YANKAR SUCTION	01
14	D/F PLAIN 8”,9’	02	39	FRAZIOR SCUTION #12	01
15	GUT HOLSING FORCEPS #7’	01	40	WHEELER SUCTION	01
16	LONDON ROUND RETRACTOR (MEDIUM)	02	41	PROBE WITHEYE	01
17	LENGEN BAK RETRACTOR (SMALL)	02	42	WATSON CHINE	01
18	LENGEN BACK RETRACTOR (MEDIUM) (LARGE)	04	43	CURETTE (VALKMAN SCOPE0	01
19	BODY WALL RETRACTOR (MORRIS)	02	44	ROBBERT C LAMP 7’,8”	04
20	DEAVER RETRACTOR (COMPLETE SET 5)	05	45	INSTRUMENT HANGER	03
21	ALLIES TIUSSES FORCEPS 6”	04	46	KIDNEY DISH 8”&10”	02
22	ALLIES TIUSSES FORCEPS 8”	04	47	GALLIPOT	03
23	BAB COCK TIUSSES FORCEPS 6”	04	48	TOWEL CLIP	06
24	BAB COCK TIUSSES FORCEPS 8”	04	49	TROCAR CANNULA	01
25	COCHER CLAMP (ST0 6” & 8”	04+4 =8	50	INSTRUMENT TRAY	01

MEDIUM GENERAL - SET (GENERAL SURGERY)

TOTAL NUMBER OF SETS – 20

S.N	NAME OF INSTRUMENT	QTY	S.N	NAME OF INSTRUMENT	QTY
01	B.P.KNNIFE HANDLE # 3.4.7	03	26	Crile artery forceps (ST)	06
02	MET SCISSOR 6’7(ST)	02	27	Crile artery forceps (CVD)	06
03	MET SCISSOR 5/12”, 6”, 7” (CVD)	03	28	PEANUT FORCEPS	02
04	MAYO NEEDLE HOLDER ‘6”,7”, 8”	03	29	LAHEY A/F 8’,9”	02
05	ADSON D/F (TOOTH)	01	30	ARTERY FORCEPS ST LONG	02

06	ADSON D/F PLAIN	01	31	ARTERY FORCEPS (CVD) LONG	02
07	DEBAKEY D/F 7"	01	32	SPONGE HOLDER	03
08	D/F TOOTH 5",7"	02	33	YANKAR SUCTION	01
09	D/F PLAIN 6",7"	02	34	FRAZIOR SCUTION # 10,12	02
10	D/F PLAIN 9"	01	35	PROBE WITH EYE	01
11.	DIATHERMY FORCEPS TOOTH 6"	01	36	WATSON CHINE	01
12	DIATHERMY FORCEPS FINE 5", 7"	02	37	CURETTE	01
13	LENGEN BAK RETRACTOR (SMALL, LARGE)	04	38	TOWEL CLIP	06
14	LENGEN BAK RETRACTOR (MEDIUM)	02	39	INSTRUMENT HANGER	02
15	LONDON RETRACTOR	02	40	KIDNEY DISH 8"&10"	02
16	MORRIS RETRACTOR	02	41	GALLIPOT	03
17	ALLIES FORCEPS 6"	04	42	INSTRUMENT TRAY	01
18	ALLIES FORCEPS 8"	02	43	Saint Marks deep pelvic retractor	2
19	BAB COCK FORCEPS 6"	04	44	Cusco Retractor	2
20	BAB COCK FORCEPS 8"	02	45	Sims Speculum	2
21	WET SELF RETAINING RETRACTOR	04	46	Parks Anal Speculum	2
22	COCHER CLAMP (ST) 6"	02	47	Eisenhammer and Speculum	2
23	COCHER CLAMP (CVD) 6"	02	48	Fistula Probes all sizes	1 each
24	MOSQUITO ARTERY FORCEPS (ST)	06	49		
25	MOSQUITO ARTERY FORCEPS (CVD)	06	50		

INTESTINAL CLAMPS-SET
TOTAL NUMBER OF SETS – 15

S.N	NAME OF INSTRUMENT	QTY	S.N	NAME OF INSTRUMENT	QTY
01	CRUSHING CLAMP (LARGE)	02	11	SPENCER WELL (ST) 8'	04
02	CRUSHING CLAMP (SMALL)	02	12	SPENCER WELL (ST) 8'	04
03	NON CRUSHING CLAMP CVD (LARGE)	04	13	COCHER CLAMP (ST) 8"	08
04	NON CRUSHING CLAMP ST (LARGE)	04	14	COCHER CLAMP (CVD) 8"	08
05	KBLLIBS RETRACTOR (LARGE)	02	15	ARTERY FORCEPS ST (LARGE)	04
06	ANVERESIM NEEDLE	01	16	ARTERY FORCEPS CVD (LARGE)	04
07	MORRIS RETRACTOR	02	17	TROCAR CANNULA	01
08	DEAVER RETRACTOR	05	18	LANG STEVENSON'S INTESTINAL FORCEPS	02
09	TANNER;S MODIFICATION OF LANE'S TWIN	01	19	DESJORDIN FORCEPS/ STONE HOLDING	04
10	BOUGES DILATORS	12	20	POT SCISSOR	02
21	Surgical Pursestring Suturing Instruments		22	Saint Marks Deep Pelvic Retractor	2

6. SURGICAL INSTRUMENTS SETS FOR EYE SURGERY

(VITREORETINAL INSTRUMENT) 20G/23G

1. Back Flush hand piece with large silicone chamber 2x20g / 2x23g
2. Rotatable chuck for backflush cannulas x2
3. Membrane spatula with ball tip angled 1x20G/1x23G
4. Eckard's ILM Peeling Forceps 1x 20G/ 1x23G
5. Retina Diamond knife Titanium 1x20G/1x23 G
6. Vitreoretinal Forceps with magnet 2.1 d: armature (foreign body) x2
7. VR Straight scissors 1x20g/1x23g
8. VR Straight Bluntscissors 1x20g/1x23g
9. VR Curved Scissors 1x20g/1x23G
10. VR End Gripping forceps ILM Peeling 1x20g/1x23g
11. VR Delicate Serrated forceps 1x20g/1x23g
12. VR Rassam membranepicking forceps 1x20g/1x23g
13. VR Smooth rounded tip forceps 1x20g/1x23g
14. Fixation plate 23G x 6
15. Castroviejo style marking caliper x6
16. 23 gauge fiber optic cannula inserter x6
17. Infusion Cannula inserter 23.G x6
18. Barraquer fenestrated heavy wire eye lid speculum x 6
19. Outcome infusion stop cock one way x6
20. Watzk's sleeve spreading forceps x2

CATARACT SET EYE OT

01. Utrata Forceps	(20)
02. Corneal Scissor “Micro”	(20)
03. Corneal Forceps “Micro”	(20)
04. Suture Typing Forceps “Micro”	(20)
05. Castroviejo Needle Holder 4/0	(20)
06. Vannas Scissor “Micro”	(20)
07. 10/0 Needles Holder	(20)
08. Universal Speculum	(20)
09. Small Bowls	(20)
10. Spring Scissor	(20)
11. Wire Speculum	(20)
12. Wire Vectis	(20)
13. Plain Dissecting Forceps	(20)
14. Simco Cannula	(20)
15. Lens Holding Forceps	(06)
16. Len Folding Forceps	(06)
17. Mcpherson forceps	(20)
18. Caliper	(06)
19. Chopper	(20)
20. Lens dialer	(20)
21. Straight Pointed Scissor	(20)
22. Wescott Scissor	(20)
23. Silicone Sterilization trays USA made (6inch x 10inch)	(20)

SUPPLY ITEMS / SCOPE OF WORK – SPECIFICATIONS (TECHNICAL)

Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of **Surgical Hand Instruments Sets for Operation Theatres** of the project “Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi”

CONTRACT NO. PD-TRAUMA CENTRE-CHK/030 (REV) 2014-15

S.No	Specification	Qty	Unit	Yes / No / Put desired value
(1)	(2)	(3)	(4)	(5)
1.	<p><u>SURGICAL INSTRUMENTS SETS FOR NEUROSURGERY</u></p> <ul style="list-style-type: none"> • The detail is given in the technical specifications • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany or Equivalent</p>	3	Lots	
2.	<p><u>SURGICAL INSTRUMENTS SETS FOR OPEN HEART SURGERY</u></p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Sterilization Box with autoclaveable + Plasma • Warranty 10 years • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany or Equivalent</p>	2	Lots	
3.	<p><u>SURGICAL INSTRUMENTS SETS FOR MAXILLOFACIAL SURGERY</u></p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent</p>	1	Lot	

4.	<p>SURGICAL INSTRUMENTS SETS FOR VASCULAR / THORACIC SURGERY</p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent</p>	1	Lot	
5.	<p>SURGICAL INSTRUMENTS SETS FOR ORTHOPAEDIC SURGERY</p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Japan, Switzerland or Equivalent</p>	1	Lot	
6.	<p>SURGICAL INSTRUMENTS SETS FOR GENERAL SURGERY</p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent</p>	1	Lot	
7.	<p>SURGICAL INSTRUMENTS SETS FOR EYE SURGERY</p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent</p>	1	Lot	

SIGNATURE

CONTRACTOR NAME

DATE & SEAL

BIDDING DOCUMENTS

CIVIL HOSPITAL KARACHI

HEALTH DEPARTMENT

GOVERNMENT OF SINDH

Contract NO:- PD-Trauma Centre-CHK/030 (Rev) 2014-15

**Supplying, Installation, Testing, Commissioning &
Maintenance (during maintenance period) of
Surgical Hand Instruments Sets for Operation**

Theatres of the project

**“Shaheed Mohtarma Benazir Bhutto Accident,
Emergency & Trauma Centre and Ancillary Services
Complex at Civil Hospital Karachi”**

VOLUME-II

FINANCIAL BID DOCUMENTS

SUMMARY OF CONTENTS

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4.	BILL OF QUANTITY	5 TO 7

FORM OF BID

The Project Director,
Shaheed Mohtarma Benazir Bhutto,
Accident, Emergency & Trauma Centre,
And Ancillary Services Complex At,
Civil Hospital Karachi

Sub: Supplying, Installation, Testing, Commissioning and Maintenance (during maintenance period) of **Surgical Hand Instruments Sets for Operation Theatres** of the project Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi / Contract No. PD-Trauma Centre-CHK/030(Rev) 2014-15

Dear Sir,

1. Having examined the Tender Documents and the site conditions for the above mentioned Project, we, the undersigned offer to Supply, Installation, Testing, Commissioning and maintenance (during maintenance period) of the whole of the said works in conformity with the said tender Documents (and Addendum if any) for the sum of under-mentioned amount on DDP basis:-

Bid Price (In Figure):	
Bid Price (In Words):	

2. The above total sum is based on the quantities shown in the Bill of Quantities and other works as mentioned in Salient Features.
3. We undertake, if our tender is accepted, to sign an agreement within 15 calendar days following receipt of letter of award in the form laid out in annexure to this Tender with such alterations and additions thereto as may be required to adopt, such Agreement to circumstances of this Tender.
4. We undertake, if our Tender is accepted, to mobilize on site within 7 calendar days of receipt of the letter of award and commence the works on the first works comprised in the contract within the time of completion specified in the Salient Features.
5. We agree to abide by the Tender for a period of 90 calendar days from the date of opening of tender and shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Unless and until a formal Agreement is prepared and executed, this Tender together with your written acceptance thereof and other relevant correspondence subsequent to the Tender shall constitute a binding Contract between us.
7. We understand that you are not bound to accept the lowest or any tender you may receive, and that your will not reimburse any expenses incurred by us in preparing and submitting the Tender or otherwise in connection with the Tender.
8. As a guarantee for the performance of the undertakings and obligations of this Tender, we submit herewith Earnest Money/Bid Security equivalent to 1% of the quoted cost in an amount Rs. _____ (Rupees _____) in form of Pay Order issued by the Bank vide No. _____ dated _____ made in your favor and made payable to you without any reference to us and valid for 90 calendar days from the date of submission of Tender.
9. The Tender Documents referred to above constitute a part of this Tender and comprise of the documents listed hereunder:
 - a. Instructions to bidders.
 - b. Salient Features / Terms & Condition of the Tender.
Questionnaire / Proforma – Evaluation Criteria
 - c. Form of Agreement.
 - d. Scope of work / Bill of Quantities / Specification (Technical).
 - e. The Addendum (if any).
 - f. The Drawings (if any).

Dated this _____ day of _____ 20_____

Signature _____ in the capacity of _____ duly authorized to sign bids for and on behalf of _____

(Name of Bidder in Block Capitals)
(Seal)

Address

Witness:

(Signature) _____

(Name) _____

Address: _____

Occupation _____

BILL OF QUANTITY

Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of **Surgical Hand Instruments Sets for Operation Theatres** of the project Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi
CONTRACT NO. PD-TRAUMA CENTRE-CHK/030 (REV) 2014-15

S.No	Specification	Qty	Unit	Unit Price	Total Amount
(1)	(2)	(3)	(4)	(5)	(6)
1.	<p><u>SURGICAL INSTRUMENTS SETS FOR NEUROSURGERY</u></p> <ul style="list-style-type: none"> • The detail is given in the technical specifications • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany or Equivalent</p>	3	Lots		
2.	<p><u>SURGICAL INSTRUMENTS SETS FOR OPEN HEART SURGERY</u></p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Sterilization Box with autoclaveable + Plasma • Warranty 10 years • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany or Equivalent</p>	2	Lots		
3.	<p><u>SURGICAL INSTRUMENTS SETS FOR MAXILLOFACIAL SURGERY</u></p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. 	1	Lot		

	<ul style="list-style-type: none"> • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent</p>				
4.	<p>SURGICAL INSTRUMENTS SETS FOR VASCULAR / THORACIC SURGERY</p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent</p>	1	Lot		
5.	<p>SURGICAL INSTRUMENTS SETS FOR ORTHOPAEDIC SURGERY</p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Japan, Switzerland or Equivalent</p>	1	Lot		
6.	<p>SURGICAL INSTRUMENTS SETS FOR GENERAL SURGERY</p> <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent</p>	1	Lot		

7.	SURGICAL INSTRUMENTS SETS FOR EYE SURGERY <ul style="list-style-type: none"> • The detail is given in the technical specifications. • Surgical Grade Stainless Steel. • Every Needle holder and scissor should have tungsten inserts. • Samples should be provided along with bidding document. • Instrument care solution shall be provided by supplier • Autoclaveable + Plasma • Instrument Tag system Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Germany, Superior Export Quality or Equivalent	1	Lot		
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GRAND TOTAL

Grand Total in Pak. Rupees, on DDP / C&F basis _____

SIGNATURE

CONTRACTOR NAME

DATE & SEAL