

Tender
For
Equipments required for Department of Orthopaedics
At
All India Institute of Medical Sciences, Jodhpur

NIT Issue Date : **September 02, 2013**
Pre-Bid Meeting : **September 12, 2013 at 01:00 PM.**
Last Date of Submission : **Sep 26, 2013 at 03:00 PM.**



All India Institute of Medical Sciences, Jodhpur
Basni Phase - II, Jodhpur, Rajasthan-342005.
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All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan, an apex healthcare institute being established by Parliament of India under aegis of Ministry of Health & Family Welfare, Government of India, invites sealed tenders for supply & installation of the following items at the institute. You

Tender – Supply, Installation and Commissioning of Equipment required in Orthopaedics Department are requested to quote your best offer along with the complete details of specifications, terms & conditions.

ANNEXURE 'A'

S.No	NIT No.	Qty	Item Description	EMD (in Rs.)
A	Admin/General/108-A/2013-AIIMS.JDH	Annexure B	OT Instrumentation.	26,000
	Admin/General/108-B/2013-AIIMS.JDH		1.1-Bone Forceps Set.	5,000
	Admin/General/108-C/2013-AIIMS.JDH		1.2-Large Fragment Set	7,000
	Admin/General/108-D/2013-AIIMS.JDH		1.3-Small Fragment Set	8,500
	Admin/General/108-E/2013-AIIMS.JDH		1.4-Wire Instruments Set	6,500
	Admin/General/108-F/2013-AIIMS.JDH		1.5-4.5 / 4.0mm Cannulated Screws Instrument Set	4,000
	Admin/General/108-G/2013-AIIMS.JDH		1.6-LCP Small Set	9,000
	Admin/General/108-H/2013-AIIMS.JDH		1.7-LCP Large Set	5,000
	Admin/General/108-I/2013-AIIMS.JDH		1.8-Broken Screw / Nail Removal Set	20,000
	Admin/General/108-J/2013-AIIMS.JDH		1.9-Low Profile 3.5 Basic Pelvic set in Graphic case	14,000
	Admin/General/108-L/2013-AIIMS.JDH		1.10-Low Profile 3.5 Pelvic reduction instrument set in Graphic case	9,000
	B		Admin/General/109/2013-AIIMS.JDH	Battery Drill Set for Trauma and Joint Replacements.
C	Admin/General/110/2013-AIIMS.JDH	Mobile C-Arm Image Intensifier.	1,20,000	
D	Admin/General/112/2013-AIIMS.JDH	Automatic Tourniquet System	9,000	

(Refer Specifications Details as per Annexure-'B')

Quotation should be sealed and superscribed with tender number and address to:

“Administrative Officer
All India Institute of Medical Sciences, Jodhpur
Basni, Phase-II
Jodhpur-342005, Rajasthan”.

The sealed quotations should reach the Institute, latest by September 26, 2013 at 03:00 PM and it will be opened on same day at 03:30 PM in the Project Cell, Resident Complex, AIIMS, Jodhpur of the Institute in the presence of the bidder(s) or their authorized representative(s), who will present at the scheduled date and time.

Terms & Conditions:

- 1. Earnest Money Deposit:** The bidder shall be required to submit refundable amount as Earnest Money Deposit (EMD) and a non-refundable tender fee for an amount of

1,000/- (Rupees One Thousand only) for each NIT by way of demand drafts only as mentioned in Annexure 'A'. The demand drafts shall be drawn in favour of **“All India Institute of Medical Sciences, Jodhpur”**. The demand drafts for earnest money deposit must be enclosed in the envelope containing the technical bid.

The EMD of the successful bidder shall be returned after the successful completion of contract / order and for unsuccessful bidder(s) it would be returned after award of the contract. Bid(s) received without demand drafts of EMD shall be liable for rejection.

The firms who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industrial (SSI) are exempted to submit the EMD (Copy of registration must be provided alongwith).

2. Rate: Rates should be quoted in Indian Rupees (INR) on DOOR Delivery Basis at AIIMS, Jodhpur, Rajasthan, Inclusive of all the Charges, with break-ups as:

- Basic Cost.
- VAT /CST as applicable.
- Total Cost (F.O.R at AIIMS Jodhpur).

3. Validity: The quoted rates must be valid for a period for 120 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

4. Delivery & Installation: The items shall be delivered within 30 days of issue of supply order at AIIMS, Jodhpur. Satisfactory installation / commissioning and handover of the items will be completed within two weeks from the date of receipt of the goods at the AIIMS, Jodhpur premises. The successful tenderer will also provide required training for supplied items at AIIMS-Jodhpur.

The goods should be manufactured after adoption of latest technology.

5. Sample: AIIMS Jodhpur reserves the right to ask the tenderers for submitting the sample of each item for which rates have been quoted, Technically Qualified Bidders may be asked to submit samples along with their quoted items nos. and their firm name without indicating any prices before opening of Financial Bid to AIIMS, Jodhpur for Inspection.

6. Guarantee / Warrantee Period: For the equipment value upto Rs. 5 Lakh: The Tenderers must quote for 2 years comprehensive warranty (Including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily

rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 3 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account on basic price and post warranty CMC.

CMC Charges will be payable separately at the time of start of CMC.

- 7. Guarantee / Warrantee Period: For the equipment value above Rs. 5 Lakh:** The Tenderers must quote for 5 years comprehensive warranty (Including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account on basic price and post warranty CMC.
- 8. Performance Security:** The supplier shall require to submit the performance security in the form of irrevocable Bank Guarantee (BG) / or Fixed Deposit Receipt (FDR) issued by any Nationalised Bank for an amount of which is equal to the 10% of the order value and should be kept valid for a period of 60 day beyond completion of all the contractual obligation including CMC period.
- 9. Payment Term:**
 - 90% payment of the total order value shall be released after the successful installation/ commissioning of the ordered goods against the submission of the test report.
 - Balance 10% of the order value shall be released after the submission of the performance security.
- 10.** Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.
- 11.** Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.
- 12.** After due evaluation of the bid(s) Institute will award the contract to the lowest evaluated responsive tenderer.
- 13.** Conditional bid will be treated as unresponsive and it may be rejected.
- 14.** The Institute reserves the right to accept in part or in full or reject any or more quotation(s) without assigning any reasons or cancel the tendering process and reject all quotations at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
- 15. Quantity:** The quantity of item given in the tender is tentative, which may be increased or decreased as per the institute's requirement.

16. Applicable Law:

- The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
- Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Jodhpur, Rajasthan, India only.
- The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jodhpur. The decision of the Arbitrator shall be final and binding on both the parties.
- Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

"PRE –BID Meeting" with the intending bidders shall be held on 12th Sep 2013 from 01:00 P.M. onwards at AIIMS, Jodhpur.

Specifications

Annexure B

A. OT Instrumentation:

1.1 Bone Forceps Set	Qty
Reduc-Forceps w/Points narrow ratchet-lock	2
Reduc-Forceps w/Points wide ratchet-lock	2
Reduc-Forceps w/Points ratchet-lock approx. L180mm	2
Reduc-Forceps toothed speed-lock approx.L170mm	2
Reduc-Forceps w/Points speed-lock approx.L130mm	2
Reduct-Forceps-large w/Points speed-lock	2
Reduc-Forceps toothed speed-lock approx.L140mm	2
Reduc-Forceps w/Points ratchet-lock approx.L160mm	2
Reduc-Forceps w/Points ratchet-lock, approx. L130mm	2
Reduc-Forceps toothed ratchet-lock, approx. L140mm	2
Bone Holding Forceps self-center speed-lock approx. L 150mm	2
Bone Holding Forceps self-center speed-lock approx. L 200mm	2
Bone Holding Forceps self-center speed-lock approx. L 250mm	2
Hold-Forceps for Tibial-Edge Fragm, approx.L 200mm	2
Hold-Forceps w/Ball ratchet-lock approx.L180mm	2
Bone-Spreader speed-lock approx.L140mm	2
Stagbeetle-Forceps ratchet-lock approx. L120mm	2
Patella Forceps speed-lock approx.L175mm	2
Malleolar Forceps speed-lock approx.L210mm	2
Reduc-Forceps toothed speed-lock approx.L170mm	2
Plate Holding Forceps, size 2	2
Plate Holding Forceps, size 0	2
Reduction forceps with points, softlock, approx. L 160 mm	2
Periarticular reduction forceps, medium with pointed ball tips	1

1.2 Technical Specifications for Bone Forceps Set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
1. **Company should be at least in its 5 years of operations at the date of Submission of tender.**
2. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
3. Physical demo may preferably be arranged at the time of requirement.
4. Instruments quality should meet the international standard.
5. Company should have **European CE** certificates and **USFDA** certificates of International standard.
6. Company should provide material certificates.
7. Material – Stainless Steel
8. Grade- ISO 5832-1

2.1 Large fragment set	Qty
Aluminium Case, perforated	1
Drill Bit, 3.2mm dia.,approx. L 145/120mm for quick coupling	2

Drill Bit, 4.5mm dia., approx.L 147/120mm for quick coupling	2
Countersink, large, approx.L 180mm	1
T-Handle with quick coupling, approx.L 80mm	2
Tap for 4.5mm Cortex Screws	2
Tap for 6.5mm Cancellous Bone Screws	1
Double Drill Sleeve 4.5/3.2	1
Double Drill Sleeve 6.5/3.2	1
Screwdriver Shaft, hexagonal, large, approx. L 100mm	1
Screwdriver, hexagonal, large, with groove, approx.L 240mm	1
Holding Sleeve, large, approx.L 120mm	1
Depth Gauge for 4.5 to 6.5mm Screws	1
Sharp Hook, approx.L 155mm	1
DCP Drill Sleeve 4.5	1
Universal Drill Sleeve 4.5	1
LC-DCP Drill Sleeve 4.5	1
Bending Template for DCP 4.5 and LC-DCP 4.5 approx.L 210mm	1
Bending Template for DCP 4.5 and LC-DCP 4.5 approx.L 120mm	1
Bending Template for DCP 4.5 and LC-DCP 4.5 approx.L 155mm	1

2.2 Technical Specifications for Large Fragment Set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
5. Instruments quality should meet the international standard.
6. Company should have **European CE** certificates and **USFDA** certificates of international standard.
7. Company should provide material certificates.
8. Material – Stainless Steel
9. Grade- ISO 5832-1
10. The instrumentation should allow for drilling, tapping, compression, neutralization, buttressing and fixation of 4.5 mm cortical screws and 6.5 mm cancellous screws.

3.1 Small Fragment set	Qty
Aluminium Case, perforated	1

Drill Bit, 2.5mm dia., approx. L 110/85mm for quick coupling	2
Drill Bit, 3.5mm dia., approx.L 110/85mm, for quick coupling	2
Countersink Shaft 3.5, approx.L 72mm	1
Tap for 3.5mm Cortex Screws	2
Tap for 4.0mm Cancellous Bone Screws	2
T-Handle with quick coupling, approx.L 80mm	2
Double Drill Sleeve 3.5/2.5	1
Insert Drill Sleeve 3.5/2.5, approx. L 42mm Drill Bit 2.5mm dia.	1
Screwdriver, hexagonal, small, with Holding Sleeve	1
Screwdriver Shaft, hexagonal, small, approx.L 100mm, for quick coupling	1
Screwdriver, hexagonal, small, with groove, approx.L 200mm	1
Holding Sleeve, approx. L 80mm	1
Depth Gauge for 2.7mm to 4.0mm Screws	1
Sharp Hook, approx.L 155mm	1
Holding Clip 4.5 - 7.0mm	2
Screw Forceps, self-retaining, approx.L 85mm	1
DCP Drill Sleeve 3.5 for neutral and load position	1
Bending Iron, slit widths 4.5/2.5mm, approx.L 150mm, for Plates 2.7 and 3.5	1
Bending Iron, slit widths 2.5/4.5mm, approx.L 150mm, for Plates 2.7 and 3.5	1
Bending Pliers for Plates 2.4 to 4.0mm	1
Bending Template for DCP 3.5 and LC-DCP 3.5 approx.L 80mm	1
Bending Template for DCP 3.5 and LC-DCP 3.5 approx.L 110mm	1
Wire Bending Pliers, approx. L 150mm	1
Bending Iron, for Kirschner Wires 1.25 to 2.5mm dia., approx.L 120mm	1

3.2 Technical Specifications for Small Fragment Set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
5. Instruments quality should meet the international standard.
6. Company should have **European CE certificates and USFDA certificates** of international standard.
7. Company should provide material certificates.
8. Material – Stainless Steel
9. Grade- ISO 5832-1
10. The instrumentation should allow for drilling, tapping, compression, neutralization, buttressing and fixation of 3.5 mm cortical screws and 4 mm cancellous screws.

4.1 Wire Instrument set	Qty
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Aluminium Case, perforated	1
Drill Bit, 2.0mm dia., approx.L 102/75mm for quick coupling	1
Triple Drill Guide 2.0 with 3 holes, opposite side 1 hole	1
Wire Passer, 45mm bending diameter	1
Wire Passer, 70mm bending diameter	1
Wire Tightener with handle and two pegs	1
Holding Forceps for Cerclage Wires	2
Wire Bending Pliers	1
Parallel Pliers, flat nosed, approx. L 160mm	1
Wire Cutter, large, approx.L 200mm	3
Wire Cutter, short, approx.L 175mm	3
Bending Iron, for Kirschner Wires 1.25 to 2.5mm dia.	1
Cerclage Wire, 1.0mm dia., with approx. eye L 280mm	2
Cerclage Wire, 1.25mm dia., with approx. eye L 280mm	1
Wire Mount	4

4.2 Technical Specifications for Wire instrument Set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
3. Instruments quality should meet the international standard.
4. Company should have **European CE certificates and USFDA certificates** of international standard.
5. Company should provide material certificates.
6. Material – Stainless Steel
7. Grade- ISO 5832-1
8. The instruments should contain the above for proper insertion, handling, cutting, bending, holding, and tightening of Cerclage, Kirschner wires

5.1	4.5 / 4.0 mm Cannulated set	Qty.
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Drill Bit 1.5mm, approx. L110/85 2flute	1
Drill Bit 3.2/1.75 cann approx. L170/140 4flute	2
Countersink-cann 4.5 mm	1
T-Handle w/Quick-Coupling	1
DoubleDrillGuide 4.5/3.2 mm	1
Parallel-Guide for Guide-Wires 1.6 mm adjust	1
Trocar 1.6 /4.5 mm	1
DrillSleeve 3.2/1.6 /4.5mm	1
DrillSleeve 7/3.2 /4.5 mm	1
Protect-Sleeve 9.5/7 /4.5 mm	1
Screw Driver-hex-cann 4.5mm	1
Holding-Sleeve	1
Direct Measuring-Device 4.5mm	1
Clean-Stylet 1.6mm	1
Hold-Clip for Washers	1
Screw Forceps self-hold approx. L85mm	1
GuideWire 1.6mm, with thread-tip with trocar approx.L15mm	10
Aluminium Case, perforated	1
Screwdriver Shaft, hexagonal, large, approx. L 100mm	1
Screwdriver hexagonal, large,3.5mm with groove approx.L 280mm	1

5.2 Technical Specifications for 4.5 mm / 4.0mm Cannulated Screws Instrument set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
5. Instruments quality should meet the international standard.
6. Company should have **European CE certificates and USFDA certificates** of international standard.
7. Company should provide material certificates.
8. **Material – Stainless Steel (Instruments)**
9. **Grade- ISO 5832-1**
10. The Instrument should be usable for 4.5 as well as 4.0 mm cannulated screws.

6.1	LCP Small set	Qty.
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Aluminium Case, perforated	1
Torque-limiting Attachment for LCP 3.5, 1.5Nm	1
Drill bit 2.5mm dia.	2
Extraction Screw, conical	1
Drill Bit, 2.8mm dia., approx. L 165mm for quick coupling	2
Screwdriver Shaft 2.5, approx. L 80mm	2
Screw Holding Sleeve for LCP 3.5mm	1
Threaded LCP Drill Guide for 2.8mm Drill Bit	2
Handle with Quick Coupling	1
Screwdriver, hexagonal, small, with groove, approx. L 200mm	1

6.2 Technical Specifications for LCP Small Set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement. Instruments quality should meet the international standard.
5. Company should have **European CE certificates and USFDA certificates** of international standard.
6. Company should provide material certificates.
7. Material – Stainless Steel (Instruments)
8. Grade- ISO 5832-1
9. It should have basic instrumentation for the locking compression plate, which is meant for Osteoporotic bones.
10. It should act as basic instrumentation for Special Plates such as proximal tibia/ distal tibia medial/ Distal Anterolateral tibia/ Olecranon/ distal Humerus/proximal humerus/radius/ulna/clavicle.

7.1	LCP Large	Qty.
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Aluminium Case, perforated	1
Torque-Limiting Screwdriver for 3.5 mm screws	1
Drill bit 3.5mm dia.	2
Extraction Screw, conical, for 4.5/6.5mm Screws	1
Drill Bit, 4.3mm dia., approx. L 221mm	2
Screwdriver Shaft 3.5, self-retaining, approx. L 110mm	2
Threaded LCP Drill Guide for 4.3mm Drill Bit	2
Screw Holding Sleeve for LCP 4.5/5.0	1
Handle with Quick Coupling	1

7.2 Technical Specifications for LCP Large Set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
5. Instruments quality should meet the international standard.
6. Company should have **European CE certificates and USFDA certificates** of international standard.
7. Company should provide material certificates.
8. Material – Stainless Steel (Instruments)
9. Grade- ISO 5832-1
10. It should have basic instrumentation for the locking compression plate, which is meant for Osteoporotic bones.
11. It should act as basic instrumentation for Special Plates such as proximal tibia/ Distal Femur/ Proximal Femur.

8.1 Broken screw removal set	Qty.
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Aluminium Case, perforated	1
Hollow Reamer for 3.5/4.0mm Screws	1
Spare Reamer Tube	1
Extraction Bolt for 3.5/4.0mm Screws	1
Extraction Screw, conical, for 2.7mm, 3.5mm and 4.0mm Screws	1
Hollow Reamer for 4.5mm Screws	1
Spare Reamer Tube	1
Extraction Bolt for 4.5mm Screws	1
Extraction Screw, conical, for 4.5/6.5mm Screws	1
Hollow Reamer for 5.0/6.0/6.5/7.0mm Screws	1
Spare Reamer Tube	1
Extraction Bolt, for 5.0/6.0/6.5/7.0mm Screws	1
Aluminium Plate, anodized	1
Sharp Hook, approx. L 155mm	1
Forceps for Screw Removal, approx. L 205mm	1
Gouge, 10mm wide, approx. L 205mm	1
T-Handle with quick coupling, approx. L 80mm	1

8.2 Nail Removal Set:

Connector for Extract-Hook Connector with thread, for Extraction Hook	1
Extract-Hook approx. L 480 for Nails 9mm to be used with connector	1
Extract-Hook long for Nails 9-11mm to be used with connector	1
Extract-Hook long for Nails 11-14mm to be used with connector	1

8.3 Technical Specifications for Broken Screw / Nail Removal Set:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
5. Instruments quality should meet the international standard.
6. Company should have **European CE certificates or USFDA certificates** of international standard.
7. Company should provide material certificates.
8. Material – Stainless Steel (Instruments)
9. Grade- ISO 5832-1

9.1 Basic Pelvic Instrument Set, in Sterilizing Tray	Qty
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Drill Bit, 3.5mm dia., approx.L 195/170mm for quick coupling	1
Drill Bit, 4.5mm dia., approx.L 195/170mm for quick coupling	1
Tap for 3.5mm Cortex Screws, approx. L 175mm	1
Tap with length markings for 4.5mm Cortex Screws, approx. L 175mm	1
Holding Sleeve, approx. L 80mm	1
Screwdriver, hexagonal, large, approx. L 300mm	1
Holding Sleeve, large, approx.L 120mm	1
Screwdriver Shaft, hexagonal, small, approx.L 165mm, for quick coupling	1
Screwdriver Shaft, hexagonal, large, approx.L 165mm, for quick coupling	1
Screwdriver, hexagonal, small, approx.L 270mm	1
Drill Bit, 4.5mm dia., 3-flute, for quick coupling	1
Drill Bit, 2.5mm dia., 3-flute, with depth markings	1
Drill Bit, 3.2mm dia., 3-flute, with depth markings	1
Depth Gauge for long 3.5mm Screws	1
Bending Iron for Reconstruction Plates 3.5/4.5	1
Bending Pliers for Reconstruction Plates 2.7/3.5	1
Bending Template for straight Reconstruction Plates 3.5	1
Bending Template for curved Reconstruction Plates 3.5	1
Bending Template for Reconstruction Plates 4.5	1

9.2 Technical Specifications for Low Profile 3.5 Basic Pelvic set with Graphic case:

Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.

1. **Company should be at least in its 5 years of operations at the date of submission of tender.**
2. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
3. Physical demo may preferably be arranged at the time of requirement.
4. Instruments quality should meet the international standard.
5. Company should have **European CE certificates and USFDA certificates** of international standard.
6. Company should provide material certificates.
7. Material – Stainless Steel (Instruments)
8. Grade- ISO 5832-1
9. A system is required which is intended for pelvic and acetabular reconstructive surgery. The system should be at par with Low Profile 3.5 mm Pelvic System The reconstruction plates should also be able to treat fracture fixation of the distal Humerus, clavicle and scapula also. It should comprise of the following main elements:
 1. An array of range of new implants
 2. Specially designed Instruments for plate and screw fixation. The system should hence comprise of plates starting from 3 holes and curved at least from 6 holes.
 3. Specific Retraction instruments (Like pelvic retractors sciatic nerve retractors radiolucent in nature.
 4. Specific Reduction instruments (Like various specially designed bone hooks, forceps etc. for conducting a successful pelvic & acetabular reconstruction surgery)

10.1 Pelvic Reduction Instrument Set, in Sterilizing Tray	Qty.
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Universal Chuck with T-Handle, approx. L 160mm	1
Bone Hook, sharp, medium, approx. L 230mm	1
Bone Hook, sharp, large, approx.L 200mm	1
Ball Spike with ball tip, approx.L 300mm	1
Pelvic Retractor, blunt, approx.L 270mm	1
Disk, spiked for Pelvic Reduction Forceps	1
Disk for Pelvic Reduction Forceps, rectangular without spikes	1
Pelvic Reduction Forceps, small, for Screws, approx. L 200mm	1
Pelvic Reduction Forceps, medium, for Screws, approx.L 250mm	1
Pelvic Reduction Forceps, oblique, small, ball tips, approx.L 190mm	1
Pelvic Reduction Forceps, oblique large, ball tips, approx.L 240mm	1
Pelvic Reduction Forceps, long, with ball tips, approx.L 400mm	1
Pelvic Reduction Forceps, long, with 3 ball tips, approx.L 400mm	1
Pelvic Reduction Forceps, large, for Screws, adjustable, approx.L 330mm	1
Pelvic Reduction Forceps with angled ball tips, approx. L 250mm	1
Reduction Forceps with points, medium handle, softlock, approx.L 222mm	1
6.0mm Schanz Screw with flat tip, approx.L 190mm	1

10.2 Technical Specifications for Low Profile 3.5 Basic Pelvic set with Graphic case:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
5. Instruments quality should meet the international standard.
6. Company should have **European CE certificates and USFDA certificates** of international standard.
7. Company should provide material certificates.
8. Material – Stainless Steel (Instruments)
9. Grade- ISO 5832-1

<u>11.1 General Orthopaedic Instruments</u>	<u>Qty</u>
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Tender – Supply, Installation and Commissioning of Equipment required in Orthopaedics Department

1) Bone lever (L)		4
2) Bone spike (S and L)		4 each
3) Hohmann's narrow tip bone levers 23.5/ 9 and 2/8 ", 18mm and 43mm		4 each
4) Hohmann's narrow tip bone levers 21.5 cm/ 8 and 4/8", 8mm		4
5) Hohmann mini bone levers 16cm/ 6 and 2/8", 6mm , 8mm and 15mm		4 each
6) Curved Serrated Lever		4
7) Kocher-Langenbeck retractors (21.5 cm/8 and 4/8", tip size- 40X18mm,60X18mm,85X18mm)		4 each
8) Cjerny's retractors		4
9) Hammer / Mallet 26.5cm / 10 and 3/8", head 32mm, weight 620 gms		2 each
10) Hammer / Mallet 26.5 cm and 10 and 3/8", Head 30mm, weight 580gm - each	2	
11) Hammer / Mallet 26.5 cm and 10 and 3/8", Head 50mm, weight1300gm each	2	
12) Alexander Chisel (Straight and curved 17.5cm / 6 and 7/8", tip size 4mm-8mm, 2 each		
13) Stille Chisel (Straight and curved 20.5cm / 8 and 1/8", tip size 10mm, 15mm,20mm,25mm 2 each		
14) Alexander Gouge – straight and curved -17.5cm / 6 and 7/8", tip size 4mm to 14mm 2 each		
15) Stille Gouge – straight and curved -20.5cm / 8 and 1/8", tip size 10mm, 15mm, 20mm, 25mm 2 each		
16) Stille Osteotome – straight and curved -20.5cm / 8 and 1/8", tip size 10mm, 15mm, 20mm, 25mm - 2 each		
17) Model USA Bone Curette with right angled tip 16.5 cm / 6 and 4/8"oval with hollow handle		2 each
18) Haile Bone Curette with right angled tip 21 cm / 8 and 2/8"oval malleable shaft with hollow handle 2 each		
19) Volkmann's Curette 17cm / 6 and 6/8" oval , 27cm / 10 and 5/8" 2 each		
20) T-handle SS and SS quick coupling		2 each
21) Bone Cutter (straight and curved)		1 each
22) Friedman Bone Rongeurs, 12.5cm / 4 and 7/8", 13.5cm / 5 and 3/8"- 2 each		
23) Cleveland Bone Rongeurs 13.5cm / 5 and 3/8"		2 each
24) Bone Rongeurs S form , S shape 30 degree angle tip, 14.5cm / 5 and 6/8", - 2 each		
25) Bone Rongeur 15.5cm /6 and 1/8" straight and 30 degree angle tip- 2 each		
26) Blumenthal Bone Rongeur 16cm / 6 and 2/8" 2		
27) Marquard Bone Rongeur 20.5cm / 8 and 1/8", 2		
28) Echlin Bone Rongeur 23cm / 9", curved tip 2		
29) Leksell-Stille Bone Rongeur 24.5cm / 9 and 5/8" 2		
30) Stille- Luer Bone Rongeur 23cm /9" straight and curved tip 2		
31) Bone file Flat solid, 22cm / 8 and 5/8 " , semi round with hollow handle, 25cm /9 and 7/8" - 2		
32) Finger Saw		2
33) Gigli saw wire and hook		4
34) Heck saw (small) with 5 blade		2
35) Bone hook		2
36) K-nail Extractor set		1 set
1) Extractor hook		1
2) K-nail reamurs		1
3) K-nail size measuring template		1
37) K-Wire bender		2

38) Locking pliers,SS,20.5cm / 8 and 1/8 "	2
39) Flat Nose plier, parallel grip,TC gold- 18cm / 7 and 1/8" - 2	
40) Wire cutting plier 13cm/ 5 and 1/8",TC gold (for soft wires upto 1.5mm and hard wires upto 1.0 mm) - 2	
41) Wire cutting plier 17cm/ 6 and 6/8",TC gold (for soft wires upto 2.0mm and hard wires upto 1.0 mm) - 2	
42) Wire cutting plier 23cm/ 9",TC gold (for soft wires upto 2.8mm and hard wires upto 2.2 mm)- 2	
43) Plate cutter 55cm / 21 and 5/8 ", for wires upto 6mm - 2	
44) wire cutter front action 38cm/15" for soft wires upto 4mm and hard wires upto 3.2mm	2
45) Staple introducer	1
46) Plaster saw electric	2
47) Plaster spreader	2
48) Nail extracting device	1
49) Farabeuf's Periosteal elevator (straight and curved 15.5cm/6 and 1/8")	3 each
50) Periosteal elevator with wooden handle 20cm / 7 and 7/8", 14mm tip, straight	
2 each	
51)) Periosteal elevator with wooden handle 18cm / 7 and 1/8", 06mm tip, straight and curved	
2 each	
52) Skin hooks (Senn- Miller) 16cm/ 6 and 2/8 "	4
53) Skin hooks Blunt tipped single pronged	4
54) Bone Hooks (Kocher type)	4
55) Self retaining Wound spreader 2 pronged , 13 cm/ 5 and 1/8 "	2
56) Self retaining wound spreader (Weitlander -Baby type)	2
57) Self retaining wound spreader 4 pronged large	2
58) Bone punch	2
59) Mc Donald's dissector double ended 18.5 cm /7 and 2/8 "	2

11.2 Technical Specifications for General Orthopaedic Instruments:

1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes.
2. **Company should be at least in its 5 years of operations at the date of submission of tender.**
3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
4. Physical demo may preferably be arranged at the time of requirement.
5. Instruments quality should meet the international standard.
6. Company should preferably have **European CE certificates or USFDA certificates** of international standard.
7. Company should provide material certificates.
8. Material – Stainless Steel (Instruments)
9. Grade- ISO 5832-1
10. **Principal Company may preferably have Certificate for Passivation Process of Instruments.**

B. Battery Drill Set for Trauma and Joint Replacements:

Battery Drill Set for Trauma and Joint replacements	Qty.
Battery Handpiece, preferably modular	2
Power Module	2
Sterile Cover	2
Lid for Battery Hand piece	2
Battery Charger	2
Quick Coupling	2
Drill Chuck (drilling speed), with key	2
Quick Coupling for Kirschner Wires 1.0 to 4.0 mm	2
Attachment for Acetabular and Medullary Reaming	2
Sagittal Saw Attachment, Long	2
Quick Coupling for DHS/DCS Triple Reamers	2

Technical Specifications for Battery Drill – for Trauma and Joint Replacement Surgeries:

<ol style="list-style-type: none"> 1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes. 2. Company should be at least in its 5 years of operations at the date of submission of tender. 3. Bidder must enclose original literatures & technical data sheet in the support of the technical bid. 4. Physical demo should be arranged at the time of requirement. 5. Instruments quality should meet the international standard. 6. Company should have European CE certificates or USFDA certificates of international standard. 7. Company should provide material certificates. 8. The Cannulated Battery Handpiece:
<ol style="list-style-type: none"> 1. Cannulation with 3.8- 4.2 mm diameter 2. Weight of handpiece 1000-1400 gm with Battery 3. Power of 150-200 W 4. Continuously variable speed without attachment 0-1500 rpm 5. Separate forward and reverse triggers 6. Handpiece is compatible with radiolucent drive 7. Instant change between clockwise and counterclockwise rotation 8. Fully Autoclavable 9. different locking options for attachments 10. should preferably have Reliable protection of soft tissue with integrated oscillation mode 9. Lid for battery Hand Piece: <ol style="list-style-type: none"> 1. Mode Selector Switch to select Drilling/Reaming, Saw, Oscillating Drill mode 2. Made of Plastic/Stainless steel 3. Should be autoclavable 10. Power Module: <ol style="list-style-type: none"> 1. Display indicating the battery capacity status 2. Consists of Motor, Control unit and Battery cells 3. Should have a button to diagnose errors in the system 11. Battery Charger : <ol style="list-style-type: none"> 1. Should preferably have 4 charging bays 2. Should be capable of charging NiCd, NiMh and Lithium Ion batteries 3. Should display the charging status of the batteries 4. Keeps inserted batteries constantly fully loaded 12. Sterile Cover: <ol style="list-style-type: none"> 1. Made of Stainless steel 2. Fully autoclavable 3. For sterile transfer of Power Module to Battery Hand piece 13. Quick Coupling attachment:

	<ol style="list-style-type: none">1. Cannulation of 1.8-2.2 mm diameter2. Maximum Speed: approx.1500 rpm3. Maximum Torque: 3 Nm
14. Chuck attachment:	<ol style="list-style-type: none">1. Cannulation of 3.8-4.2 mm diameter2. Chuck range from 0.5 to 10 mm3. Maximum Speed of 1500 rpm
15. Quick Coupling for Medullary reaming:	<ol style="list-style-type: none">1. Cannulation of 3.8-4.2 mm diameter2. Maximum Speed preferably upto 350 rpm3. Maximum torque preferably upto 15 Nm
16. Sagittal Saw attachment:	<ol style="list-style-type: none">1. It can operate on an oscillating frequency of 0 to 20,000 osc/min.2. The amplitude of oscillation should preferably be 4.5°3. 5 locking options for the saw blades in the attachment4. Saw Blade for TJR Surgery Length 81 to 116 mm, Usable L 60 to 95 mm, Width 12.5 to 25 mm, Thickness 0.89 to 1.47 mm5. Saw Blade for General Traumatology Length 46 to 90 mm, Usable Length 25 to 69 mm, Width 10 to 50 mm, Thickness 0.4 to 1.2 mm
17. Quick Coupling for DHS/DCS Triple Reamer:	<ol style="list-style-type: none">1. Cannulation of 3.8-4.2 mm diameter2. Speed up to 700 rpm
18. Quick Coupling for K-wire:	<ol style="list-style-type: none">1. Continuous adjustment facility for wire diameter from 1 to 4 mm2. Speed up to 1500 rpm
19. Batteries	<ol style="list-style-type: none">1. Lithium Ion/Nickel-cadmium battery with a minimum life of 1000 cycles2. No self discharging of batteries and no memory effect3. Maximum charging time : preferably 30-45 min4. Battery: 20-30 V5. Safe and easy handling in the operation theatre
20. Warranty / Guarantee:	<p>The vendor must quote a warranty of at least 3 year with a comprehensive maintenance contract (CMC) for 5 years.</p>

Annexure B

C. Mobile C-Arm Image Intensifier

Equipment specifications for Orthopaedic C-Arm (Image Intensifier)

Description of Function:

1. This equipment is used in orthopedic fractures for imaging of bone pathology or fractures on a display monitor during operation / reduction of fractures.
2. Uni-planar or bi-planar which is convenient, least bio/radiation-hazardous, efficient, for all type of orthopedic imaging of bones preoperatively / otherwise.
3. A Versatile, compact and true counterbalanced C-arm unit should allow unobstructed Positioning and enhanced ease of operation in OT for surgical interventions.

Technical Specifications:

1. Mechanical motion requirements for C-Arm:
 - a. Motorized Vertical travel: Minimum 400 mm or more
 - b. Horizontal travel: 220 mm or better
 - c. Rotation of C-arm: +/- 270 deg. or more
 - d. Pivotal rotation: 12.0 deg. or more
 - e. Orbital rotation: minimum 120 deg. (90 deg. to minimum 30 deg.) or better
 - f. Depth / Radius of C-arm: 650 mm or better
 - g. Free space between Image Intensifier & X-ray tube: Minimum 750 mm or more
 - h. Source to Image intensifier distance (SID): 950 mm or more
 - j. Total width of C-arm: Maximum 800 mm or less
2. Remote controlled collimator with rotatable parallel shutter.
3. The C-arm should have facility of locking the C-arm movements with easy to turn handle on control unit. Rear wheels must be freely movable for easy to turn handle on control unit. Rear wheels must be freely movable for easy positioning of the complete C-arm around the OT table.
4. Image Intensifier should have at least triple field 9"/6"/4" input diameter offering resolution (Minimum 64lp/cm or better for 4" input) and contrast ratio (25:1 or better)
5. TV Camera:

Ultra Compact CCD camera or camera with CMOS or advanced CMOS sensor with high No of pixels (> 450000) and video band width (at least 20 MHz of better) along with 2 Nos. 17" 625 lines 100 Hz flicker free TV monitors with facility to rotate the image continuously.
6. Direct Radiography:

Radiography should be possible on a cassette to be fitted in a holder for 10X 12

inches

cassette. The unit should be complete with one such holder and 1 No. cassettes including high speed intensifying screens.

7. X-ray generator:

High frequency (20- 40 KHz or more) at least 1.9 KW or even better X-ray generator with high capacity rotating anode X-ray tube of dual foci of 0.3 and 0.6 mm (200 KHU) or better.

8. Fluoroscopy output: 40-120 KV in 1KV steps

9. MA output: Minimum upto 8.0 mA or better

10. Snapshot: Minimum 12.0 mA or better

11. Fluoroscopy rate selectable: 1 image per second to 1 image per 5 second or better

12. Automatic dose rate regulation with KV & mV control

13. Time totaler for fluoroscopy with facility for alarm after every 5 minutes of fluoroscopy

14. Radiography output: 40-120 KV in 1 KV steps

15. mA range: Up to 250 mA or better

16. mA max: Up to 90 mA or better

17. Image Memory:

At least 1 (LIH) + minimum 20,000 frames dynamic digital memory on Hard Disk with 1024 X 1024 matrix or better,. There should be facility to insert patient name through alpha-numeric key board. The system preferably must be upgradable for performing real time digital subtraction angiography with acquisition up to 6 frames/sec. or better and road mapping functions etc. at any later date for peripheral angiography.

18. Image processing:

The system should have automatic dose level selection.

It should preferably have automatic image parameter selection with capability of switching

on to manual selection.

Image storage of 20,000 images on a 1024 / 1024 matrix

It should have image annotation facility; measuring of distances and angles, entering of demographic data of patients, support of DICOM 3.0 functions.

Image processing must be a fully digital continuous chain of at least 1k / 1k matrix for image acquisition, processing , storage, archiving and documentation. **The system should allow configuration and linking up with the HIS (Hospital information system)**

19. Essential Accessories:

The complete functional system must be quoted with dual channel Laser light source on X-ray tube unit for making a cross to reduce the X-ray dose, built in diode area product meter for display of X-ray dose, **light weight lead aprons (5), thyroid shields (5), gonadal shields (5), lead goggles (3)** and preferably a CVT and thermal imaging film printer with 12 film rolls and a CD/DVD writer.

Warranty / Guarantee:

Company should provide comprehensive maintenance warranty of 3 years with extendable CMC/AMC for another 5 years.

Standards, safety and training:

1. Should be **US FDA and European CE approved**
2. The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg. C and relative humidity of 15-90%.
3. The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%.
4. Comprehensive training for lab staff and support services till familiarity with the system.
5. User/Technical/Maintenance manuals to be supplied in English.
6. Certificate of calibration and inspection.
7. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
8. List of important spare parts and accessories with their part number and costing.
9. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist.
10. The job description of the hospital technician and company service engineer should be clearly spelt out.

Compliance:

Compliance Report is to be submitted in a tabulated and point wise manner clearly mentioning the page / paragraph number of original catalogue / datasheet any point, if not substantiated with authenticated catalogue/manual, will not be Considered.

D. Automatic Tourniquet System

Equipment Specifications for Automatic Tourniquet System with Hose and Cuffs

Description of Function:

1. An automatic tourniquet system comprises variable pressure cuff apparatus for applying a variable pressure to a limb or artery of a patient in order to occlude blood flow to the limb for doing a bloodless and clean surgery. The control apparatus for determining the operative pressure for a patient and a variable pressure cuff apparatus for minimum effective pressure and time required for complete blood flow occlusion.
2. Battery operated, light weight with LCD display control.
3. System with hose and battery backup.
4. Should have option for Bier's block and bilateral procedures.
5. Sizes of cuffs should meet individual requirement of thin and fat patients, for arm & thigh as well as for children. Both Paediatric and adult cuff (2 each of all sizes) should be provided.
6. Small and Light Weight.
7. Audible and Visual alarms when there is an unsafe conditions.
8. Unit should perform self calibration check every time it is turned on.
9. Cuff with lockout features, which should ensure that the cuff stays inflated even if unit is turned off.

Technical Specifications:

1. Cuff should have colour coding and puncture free technology if possible.
2. If possible it should show the patient- specific "Safe occlusion Pressure".
3. Line Voltage: 100-240v, 50/60Hz, auto-switch fitted with Indian style plug.
4. Line Current: 670mA RMS @ 120V.
5. Input Power: 53 Watts.
6. Battery Type: Rechargeable, 12V, 4Ah.
7. Battery Discharge Time: 240 mins. (4 Hrs).
8. Battery Recharge Time: 24 hrs.
9. Line Protection: 2 time delayed, 1.0Amp, 250V fuses.
10. Cuff Pressure Range: 50-475 mm Hg.
11. Pressure Accuracy: +/-3mm Hg.
12. Pressure Regulation: +/-4mm Hg of set point.
13. Max. Pressure: 475mm Hg Cuffs.
14. Time Alarm Set Range: 5-240min; 1min increment.
15. Timer Accuracy: 0.25%
16. Weight: 7.4Kg
17. Display: Back Lit 1/4 panel LCD
18. LOP (Limb Occlusion Pressure): Used to measure the recommended pressure through Sensor.

Warranty / Guarantee:

Comprehensive warranty for 2 years with spares and 3 years CMC after warranty without spares.

Standards, Safety and Training:

1. Should have a European CE or US FDA approved certification.
2. May preferably be compliant with IEC 61010-1 / or any international equivalent viz. EN/UL 61010 covering safety requirements for electrical equipment for measurement control and laboratory use.
3. The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%.

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4. The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%.
5. Rechargeable battery operated system. Charger to be provided if integrated charger is not there.
6. User/Technical/Maintenance manuals to be supplied in English.
7. Certificate of calibration and inspection.
8. Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/ paragraph number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.
9. List of important spare parts and accessories with their part number and costing.
10. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

Annexure-C

Inviting of sealed quotations for supply and installation of Equipments for
Orthopaedics Department of AIIMS, Jodhpur

TECHNICAL BID

Name of Firm/Contractor/Supplier	
Complete Address & Telephone No.	
Name of Proprietor/Partner/Managing Director/Director.	
Phone & Mobile No.	
Name and address of service centre near by Jodhpur.	
Whether the firm is a registered firm Yes/No (attached copy of certificate)	
PAN No. (enclose the attested copy of PAN Card)	
Service Tax No. (enclose the attested copy of Service Tax Certificate)	
VAT No. (enclose the attested copy of VAT Certificate)	
Whether the firm has enclosed the Tender Fees as per Annexure 'A'	
Whether the firm has enclosed the Bank Draft/Pay Order/Banker's cheque as Earnest Money Deposit as per Annexure 'A'	
Whether the Firm/Agency has signed each and every page of Tender/NIT	
Please provide full list of consumables.	
Any other information, if necessary	

Authorized signatory of the bidder with seal.

Annexure-D

Financial Bid

(To be submitted on the letterhead of the company / firm separately for each item)

S.No.	Item Description	QTY	Rate	Vat/ Tax	Amount

CMC Charges as applicable (excluding Service Tax)	
1 st Year	
2 st Year	
3 st Year	
4 st Year	
5 st Year	

1. I/We have gone through the terms & conditions as stipulated in the tender enquiry document and confirm to accept and abide the same.
2. No other charges would be payable by the Institute.

(Authorized signatory of the bidder with seal)