

# MINISTRY OF EXTERNAL AFFAIRS

through

**HSCC (INDIA) LTD.**

**(A Govt. of India Enterprises)**

Plot No. 6 (A), Block – E, Sector-I, NOIDA (U.P.)-201 301.

Tel.:91- 120- 3200410/11/04,2443113,2443104, Fax: 2533001,2542447

## INVITATION FOR BIDS (IFB)

IFB No.: HSCC/PUR/MEA/IGICH/- Kabul/2007

Date: 09.04.2007

HSCC (India) Ltd. invites sealed bids in single stage two bid system for & behalf of Ministry of External Affairs, New Delhi **FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF MEDICAL EQUIPMENTS (i.e. Equipments for Minor OT, Equipments for Blood Bank, X-Ray Machines (100 mA), X-Ray Machine (Portable), Ultra Sound Machine, 2D Echo/ Doppler, Equipments for Laboratory, CT Scan – Dual Section, MRI – 1.5 Tesla, Equipments for Physiotherapy, Equipments for Eye Centre, Equipments for ENT Centre, Equipments for Neurology Centre, Equipments for Dental Centre, Equipment for ANC Centre) FOR INDIRA GANDHI DIAGNOSTIC CENTRE AND POLYCLINIC AT IGICH, KABUL, AFGHANISTAN.**

- i) Please refer to bidding documents for detailed Technical Specifications, Quantity, Terms and Conditions of Bidding, Line Items, Bid Security, Consignee and other relevant details.
- ii) Bid evaluation shall be made on the basis of total “All inclusive Lump sum Price” to be offered for the line item. Bidders must quote for all items covered in a Line Item.
- iii) Bidders may quote for any one line item or more line items, but bid security should be given separately for each line item as indicated.
- iv) Bids shall be evaluated separately for each line item.
- v) Specimen copy of bidding documents is kept available for inspection (free of cost) at the bidding document sale counter for the benefit of prospective bidders.
- vi) In case of goods of import origin, a foreign manufacturer can quote through their authorized agent.

A complete set of Bidding Documents in English may be purchased from **17.04.2007** to **16.05.2007** by any interested bidder from 1000 hrs to 1630 hrs on all working days between 10.00 AM to 4.30 PM on the submission of a written request to the Chief General Manager – Proc, HSCC (India) Ltd., Plot No.6(A), Block E, Sector-1, NOIDA and upon payment of non-refundable fee of **Rs. 3000/-** in the form of cash or Demand Draft from any nationalized

bank drawn in favour of HSCC (India) Ltd. Payable at New Delhi/ NOIDA. Bidding documents requested by mail shall be promptly despatched by Courier/Speed Post on payment of an extra amount of **Rs. 200/-** . HSCC will not be responsible for postal delay, if any, in the delivery of the document or non - receipt of the same. Bid Document Fee paid is non-refundable and the Bid Documents are non-transferable.

HSCC/Ministry of External Affairs reserves the right to accept or reject any or all the tenders in full or in part including lowest without assigning any reason thereof or incurring any liability.

The last date of submission of bids is **17.05.2007** up to **3.00 PM**. The bids shall be opened on the same day at **3.30 PM** in presence of bidders or their authorised representatives who choose to be present.

*Log on to our web site for details: [http:// www.hsccltd.co.in/tender.htm](http://www.hsccltd.co.in/tender.htm)*

**Chief General Manager (Proc.)**

# MINISTRY OF EXTERNAL AFFAIRS

through

**HSCC (INDIA) LTD.**

**(A Govt. of India Enterprises)**

Plot No. 6 (A), Block – E, Sector-I, NOIDA (U.P.)-201301.

Tel.:91- 120- 3200410/11/04,2443113,2443104, Fax: 2533001,2542447

## INVITATION FOR BIDS (IFB)

IFB No. HSCC/PUR/MEA/IGICH/- Kabul/2007

Date: 09.04.2007

HSCC (India) Ltd. invites sealed bids in single stage two bid system for & behalf of Ministry of External Affairs, New Delhi **FOR SUPPLY, INSTALLATION, COMMISSIONING & TESTING OF MEDICAL EQUIPMENTS FOR INDIRA GANDHI DIAGNOSTIC CENTRE AND POLYCLINIC AT IGICH, KABUL, AFGHANISTAN**

Line No.	Item No.	Description of items	Quantity (in Nos.)	EMD/Bid Security	Last date of Submission of Bids
<b>I</b>	<b>Equipments for Minor OT &amp; Hospital Furniture</b>				
	1	OT Table – Adult	01	15000	17.05.07
	2	OT Table – Paediatric	01		
	3	OT Light – Portable	01		
	4	OT Light – Fixed	01		
	5	Tool Desk (Instrument Trolley)	10		
	6	Stretchers- Adult	03		
	7	Stretchers- Paediatric	03		
8	Medical Cupboards	20			
<b>II</b>					
	1	Freezers -20 degree Celsius	03	16500	17.05.07
2	Freezers -70 degree Celsius	02			
<b>III</b>	1	Electrocautery	03	41000	17.05.07
	2	Laryngoscope – Adult	02		
	3	Laryngoscope- Paediatric	02		
	4	OT Towels	50		
	5	Surgical Set- Complete –Adult	01		
	6	Surgical Set- Complete – Paediatric	01		
	7	Blood Bank Refrigerator	04		
	8	Blood Group Matching Sets	01 Set for 1000 Tests		
	9	Centrifuge	05		
	10	Fridge	05		
	11	Incubators	05		

	12	Reagents & various Chemicals	As per attached list A		
<b>IV</b>	<b>Equipments for Laboratory</b>				
	1	Semi Auto Analyzer Biochemistry	02	29000	17.05.07
<b>V</b>	<b>Equipments for Radiology</b>				
	1.	X-Ray Machine 100 Amp	01	25000	17.05.07
	2.	X-Ray Machine – Portable	03		
<b>VI</b>	1.	Ultra Sound Machine	01	55000	17.05.07
	2.	Ultrasound Machine for ANC Centre	01		
<b>VII</b>	1.	<b>2D Echo/ Doppler</b>	01	70000	17.05.07
<b>VIII</b>	1.	<b>CT Scan</b>	01	200000	17.05.07
<b>IX</b>	1.	<b>MRI – 1.5 Tesla</b>	01	1500000	17.05.07
<b>X</b>	<b>Equipments for Physiotherapy</b>				
	1.	Physiotherapy Set – Adult	01	12000	17.05.07
	2.	Physiotherapy Set- Paediatric	01		
<b>XI</b>	<b>Equipment for Eye Centre</b>				
	1.	Complete Eye check up Set Slit Lamp & other things	02	72000	17.05.07
<b>XII</b>	<b>Equipment for ENT Centre</b>				
	1	Complete ENT Instruments Set with Pure Tone Audiometry	01	80000	17.05.07
	2.	BERA (Brain Stem Evoked Audiometry)	01		
<b>XIII</b>	<b>Equipment for Neurology Centre</b>				
	1.	EEG Machine	01	68000	17.05.07
	2.	EMG	01		
<b>XIV</b>	<b>Equipments for Dental Centre</b>				
	1.	Complete Set of Dental Equipments with all basic Requirements of Dental Lab & Reagents	02	24000	17.05.07
	2	Dental X-Ray Machine	02		
<b>XV</b>	1	<b>Arthroscope</b>	03	27000	17.05.07
<b>XVI</b>	1	<b>Microscopes</b>	20	8000	17.05.07

- i) Please refer to bidding documents for detailed Technical Specifications, Quantity, Terms and Conditions of Bidding, Line Items, Bid Security, Consignee and other relevant details.
- ii) Bid evaluation shall be made on the basis of total “All inclusive Lump sum Price” to be offered for the line item. Bidders must quote for full quantity of all items covered in a Line Item.
- iii) Bidders may quote for any one line item or more of line items but bid security should be given separately for each line item as indicated.

- iv) Bids shall be evaluated separately for each line item.
- v) Specimen copy of bidding documents is kept available for inspection (free of cost) at the bidding document sale counter for the benefit of prospective bidders.
- vi) In case of goods of import origin, a foreign manufacturer can quote through their authorized agent.

A complete set of Bidding Documents in English may be purchased from **17.04.2007** to **16.05.2007** by any interested bidder from **1000** hrs to **1630** hrs on all working days between 10.00 AM to 4.30 PM on the submission of a written request to the Chief General Manager – Proc., HSCC(India) Ltd., Plot No.6(A), Block E, Sector-1, NOIDA and upon payment of non-refundable fee of **Rs.3000/-** in the form of cash or Demand Draft from any nationalized bank drawn in favour of HSCC (India) Ltd. Payable at New Delhi/ NOIDA. Bidding documents requested by mail shall be promptly despatched by Courier/Speed Post on payment of an extra amount of **Rs.200/-**. HSCC will not be responsible for postal delay, if any, in the delivery of the document or non - receipt of the same. Bid Document Fee paid is non-refundable and the Bid Documents are non-transferable.

HSCC/Ministry of External Affairs reserves the right to accept or reject any or all the tenders in full or in part including lowest without assigning any reason thereof or incurring any liability.

The last date of submission of bids is **17.05.2007** up to **3.00 PM**. The bids shall be opened on the same day at **3.30 PM** in presence of bidders or their authorised representatives who choose to be present.

The advertisement is also available on HSCC's web site:

[http:// www.hsccltd.co.in/tender.htm](http://www.hsccltd.co.in/tender.htm)

**Chief General Manager (Proc.)**

## **SECTION I. INSTRUCTIONS TO BIDDERS (ITB)**

This bid document should be read in conjunction with the Press Tender Notice/IFB No. HSCC/PUR/MEA/IGICH/- Kabul/2007 dated 09.04.2007 a copy of which is enclosed in this document and all clauses to be read in conjunction with any other instruction given else, where, in this document, on the same subject matter of the clause.

1.

### **THE BIDDING DOCUMENTS**

#### **CONTENT OF BIDDING DOCUMENTS:**

- 1.1 The Goods required, bidding procedures and tender & contract terms are prescribed in this Bidding Document and includes (1) IFB, (2) Section I (ITB), (3) Section II (GCC), (4) Section III (SCC), (5) Section IV - Schedule of requirement & Technical Specification), (6) Section V- List of Bidding and Contract forms- (i) Performance Security Form, (ii) Bid form (iii) Price Schedule, (iv) Consignee receipt form, (v) Bid Security form/EMD, (vi) Performance Statement Performa),(vii) Manufacturer's Authorisation Form, (viii) Contract Form
- 1.2 The Bidders shall examine all instructions, terms, specifications etc. in the Bidding Documents. Failure to furnish information required by Bidding Documents or submission of a Bid not in compliance to the Bidding Documents will be at the Bidder's risk and may result in rejection of its Bid.
- 1.3 COST OF BIDDING:

The Bidder shall bear all costs associated with the preparation and submission of its Bid, and HSCC, hereinafter referred to, as "The Purchaser" will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

2.

#### **CLARIFICATION IN BIDDING DOCUMENTS:**

A prospective Bidder requiring any legitimate clarification of the Bidding Documents may notify the Purchaser in writing at the Purchaser's mailing address indicated in the Invitation for Bids. The Purchaser will respond in writing to any request for clarification of the Bidding Documents that it receives not later than 15 days prior to the deadline for the submission of Bids prescribed by the Purchaser. Written copies of the Purchaser's response (including and explanation of the query but without identifying the source of inquiry) will be sent to all prospective Bidders who have received the Bidding Document.

3.

#### **AMENDMENT OF BIDDING DOCUMENTS:**

- 3.1 At any time prior to the deadline for submission of Bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder modify the Bidding Documents by amendment.
- 3.2 The amendment will be notified in writing or by Fax or cable to all prospective Bidders who have received the Bidding Documents and will be binding on them.
- 3.3 In order to afford prospective Bidders reasonable time to take the amendment into account in preparing their Bids, the purchaser may, at its discretion, extend the deadline for the submission of Bids.

4. **LANGUAGE OF BID:**

4.1 The Bid prepared by the Bidder and all correspondence and documents relating to the Bid exchanged by the Bidder and the purchaser, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as it is accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

5. **DOCUMENTS COMPRISING THE BID :**

The two-part Bid, that is, Techno - commercial Bid and Price Bid prepared by the Bidder shall comprise the following:

a) **Techno - Commercial Bid (un - priced bid):** This should inter - alia include the following:

- i) Bid security furnished in accordance with Clause 9.
- ii) Bid Form enclosed at Section VI.
- iii) Detailed technical specifications of items quoted and if applicable, along with Catalogue / Literature fabrication drawings, make and model of the equipment offered with prices blanked (without indicating the prices).
- iv) Statement of Deviations parameter wise from Tendered Commercial conditions, if any
- v) Statement of Deviations parameter wise from tendered Technical specifications if any;
- vi) Authority Letter from manufacturer in case Bid is submitted by Agents;
- vii) Bidders to indicate Name and Address of their Bankers; and
- viii) Copy of audited Balance sheet of last three financial years.
- ix) Documentary evidence established in accordance with Clause 7 that the Bidder is qualified to perform the contract if its Bid is accepted.
- x) Documentary evidence established in accordance with Clause 8 that the Goods and Ancillary to be supplied by the Bidder are eligible Goods and Services and conform to the Bidding Documents;

b) **Price Bid:** The information given at Sr. No. 5 (a) (ii) & (iii) above should be reproduced with prices indicated. The prices shall be all inclusive Lump sum prices as per description given at Clause No. 6.

6. **BID PRICE: -**

6.1(a) The Price Bid for each Line item to commensurate with scope of supply indicated under each Line item and should indicate all inclusive lump sum price offered for each Line item including cost of the stores, freight, insurance, transit insurance, packing forwarding, Sales Tax, Excise duty, Inspection/Inspectie certificate charges etc. and including charges for equipment installation, testing and commissioning with all the men and material required for the same and including charges, for two years warranty service & wherever applicable including charges for 3 (three) years Comprehensive Annual Maintenance Contract (CMC) with spares after completion of two years Warranty for all equipments except MRI 1.5 Tesla. In case of MRI, the CMC shall be for 5 Years(Five years) after the completion of two years warranty. The all inclusive lump sum price should be on **CIP IGICH Kabul- Afghanistan**

**(final destination) basis**, for the above and inclusive of all charges stated herein above. **The all inclusive lump sum price needs to be accompanied by a statement indicating a clear “break up” of all inclusive lump sum price of its various components constituting it along with values/amount indicating against each of such components adding to arrive at all inclusive lump sum price.** The prices are to be kept valid for acceptance up to **120 days** from the date of the opening of bids. The prices should be lump sum prices only for each of the Line item. No other charges in addition will be payable on any account over and above the lump sum price quoted. The prices should be given both in figures and words. Offers with price variation clause will not be accepted, the rates quoted in ambiguous terms such as “freight on actual basis” or “taxes as applicable extra” or “packing forwarding extra” will render the bid liable for rejection. Sales Tax will be either local Sales Tax or concessional Sales Tax (CST) (for inter state sales) @ 4% against issue of form ‘D’ by consignee and whichever Sales Tax amount applicable will be incorporated in the above all inclusive lump sum price. Custom Duty Exemption Certificate (CDEC) and Octroi Exemption Certificate will be issued by consignee and price to be quoted accordingly.

Bidders in their own interest shall ascertain the eligibility of whatsoever concessions and exemptions eligible and applicable and shall advise the purchaser and quote accordingly. Bidders shall indicate the actual amount of octroi, excise duty, normal sales tax etc. which becomes otherwise payable in the extreme event of consignee not in a position to release certificates like CDEC, Octroi Exemption Certificate, form D etc.

6.1(b) **Offer for Import Origin Goods**

Offers for Import origin goods shall clearly indicate firm, "All inclusive lump sum price" calculated in equivalent Indian Rupees and giving break up of as FOB (Free on Board), Marine Insurance, CIP (final destination) price, Custom clearance charges etc., local transportation (from airport to consignee premise) and Insurance etc. and all other charges for services to be rendered as explained under offer for Indigenous goods. The all inclusive lump sum price shall take care of impact of foreign exchange rate fluctuations etc. and accordingly arrive at the all inclusive lump sum price in equivalent Indian Rupees and this shall be the ceiling amount payable.

6.1 (c) The payments to both indigenous supplies as well as import supply shall have a ceiling amount, which would be the All Inclusive lump sum price.

6.2 The Bidders are free to quote for any one or more of the Line items. The purchaser will evaluate Bids based on all inclusive lump sum prices quoted for every individual Line item. The Bidders must quote for the full quantity of items covered in a Line Item. Bids of the Bidders not quoting full quantity of items covered in a Line Item will be treated as non-responsive.

6.3 The All inclusive Lump sum price will include wherever applicable charges for 3 years CMC with spares as required for the purpose of evaluation and the payment to prospective suppliers will not include payment of AMC charges at the time of payment for delivery/receipt of goods. The quantum of 3 years CMC charges with spares should be clearly indicated in the break up lump sum price and this is payable at the end of 1<sup>st</sup> year , 2<sup>nd</sup> year & 3<sup>rd</sup> year after initial two years warranty.

7. **DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION:**

7.1 The Bidder shall, furnish, as part of its Bid, documents establishing the Bidder's qualifications to perform the contract if its Bid is accepted.

7.2 The documentary evidence of the Bidder's qualifications to perform the contract if its Bid is accepted, shall establish to the Purchaser's satisfaction:

- a) that, in the case of a Bidder offering to supply Goods of import origin under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorised by the Goods manufacturer or producer to supply the Goods. In this regard, the Bidder should submit an Authority Letter from their manufacturers.
- b) The Purchaser will determine to his satisfaction whether the Bidder selected is qualified as per requirement of minimum qualifying criteria to satisfactorily perform the contract;
- c) The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder as well as such other information as the Purchaser deems necessary and appropriate;

Notwithstanding anything stated above, the Purchaser reserves the right to assess the capability and capacity of the Bidder to perform the contract, should the circumstances warrant such as assessment in the overall interest of the Purchaser.

8. **DOCUMENT ESTABLISHING GOODS' ELIGIBILITY AND CONFORMITY TO BIDDING DOCUMENTS:**

- 8.1 The Bidder shall furnish, as part of its Bid, documents establishing the eligibility and conformity to the Bidding Documents of all Goods and services that the Bidder proposes to supply under the contract.
- 8.2 The documentary conforming evidence of the Goods' and Services' conforming to the Bidding Documents may be in the form of literature, drawings and data, and shall comprise of:
  - a) a detailed description of the Goods essential technical and performance characteristics:
  - b) **a clause-by-clause commentary on the Purchaser's technical specifications demonstrating the Goods and Services substantial responsiveness to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.**
- 8.3 For purpose of the commentary to be furnished pursuant to clause 8.2(b) above, the Bidder shall note that standards for workmanship, material and equipment, and reference to brand names or equipment, and reference to brand names or catalogue numbers designated by the Purchaser in its Technical Specification are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in its Bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions are substantially equivalent or superior to those desired & designated in the Technical Specification.

9. **BID SECURITY**

- 9.1 The Bidder shall furnish, as part of its Bid, Security as indicated in Invitation for Bids (IFB)/ Press Tender Notice/NIT, in a separate single sealed envelope and shall be marked as given under clause 12.0 of this ITB.
- 9.2 The Bid Security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the security's forfeiture, pursuant to para 9.7.
- 9.3 The Bid Security shall be in the form of a crossed Account Payee demand draft drawn in favour of M/s HSCC India) Limited, payable at Noida from a Nationalised or 1<sup>st</sup> class bank.

- 9.4 Any Bid not secured in accordance with paras 9.1 to 9.3 will be rejected by the purchaser as non-responsive pursuant to Clause 17 and following which both the techno - commercial & price bid will be treated as invalid.
- 9.5 Unsuccessful Bidder's Bid Security will be discharged/returned as promptly as possible but not later than 30 days after the expiration of the period of Bid Validity prescribed by, clause 10.
- 9.6 The successful Bidder's Bid Security will be discharged upon the Bidders furnishing the performance Security, pursuant to Clause 23 & 24.
- 9.7 The Bid Security may be forfeited:
- a) if a Bidder withdraws or modifies its Bid during the period of Bid validity; or
  - b) in the case of a successful Bidder, if the Bidder fails :
    - i) to sign the contract in accordance with Clause 23 ;
    - ii) to furnish Performance Security in accordance with Clause 24.
    - iii) if the bidder does not accept an error correction pursuant to clause 17.2
- 9.8 No interest will be payable by the Purchaser on the Bid Security.

10. **PERIOD OF VALIDITY OF BIDS:**

- 10.1 Bids shall remain valid for 120 days after the date of Bid opening prescribed by the Purchaser, pursuant to Clause 13. A Bid expressed to be valid for a shorter period may be rejected by the Purchaser as non-responsive
- 10.2 In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing or by cable. The Bid Security provided under Clause 9 shall also be extended suitably. A Bidder may refuse the request without forfeiting its Bid Security.

A bidder granting the request will not be required nor permitted to modify its bid.

11. **PREPARATION AND SIGNING OF BID:**

- 11.1 The Bidder shall prepare single stage Two part bids, i.e. Techno Commercial Bid (unpriced) in duplicate and Price Bid in duplicate clearly marked as 'original' and 'copy' in addition shall enclose bid security in a single sealed third envelope.
- 11.2 The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or persons duly authorised to bind the Bidder to the contract. The later authorisation shall be indicated by written power-of-attorney accompanying the Bid. All pages of the Bid, except for unamended printed literature, shall be initialled and stamped by the person or persons signing the Bid.
- 11.3 The Bid shall contain no inter-lineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person or persons signing the Bid.

12. **SUBMISSION OF BIDS**

12.1 **SEALING AND MARKING OF BIDS:**

The Bidders shall seal the Bid in an inner and an outer envelope duly marking the envelopes, separately as Technocommercial Bid (unpriced), Price Bid and bid security in a third envelope and all these three envelopes enclosed in another sealed envelope duly marked.

12.2 The inner and outer envelopes shall be:

- (a) Addressed to Chief General Manager –Proc. II, HSCC (India) Ltd., Plot No. E-6 (A), Sector - I, Noida – 201301 as indicated in IFB:
- (b) Bear (the Project name), the Press Tender Notice reference, and the words "DO NOT OPEN BEFORE....."

12.3 The inner envelope shall indicate the name and address of the Bidder.

12.4 If the outer envelopes is not sealed and marked as required in Para 12.2, the Purchaser will assume no responsibility for the Bid's misplacement or premature opening.

13. **DEADLINE FOR SUBMISSION OF BIDS i.e. TECHNOCOMMERCIAL BID (UNPRICED) AND PRICE BID INCLUDING BID SECURITY**

13.1 As indicated in the Press Tender Notice /IFB/NIT.

13.2 Bids sent by post should be preferably sent by Registered Post with Acknowledgement Due. If any Bidder desires to deliver the Bid by hand, such Bid should be put in the Tender (Bid) Box by the specified date and time. Tender (Bid) Box is available in the HSCC office at the mentioned address.

Bids must be received by the Purchaser at the address specified on the date and time as mentioned in the "Press tender Notice". Bids will be opened in the presence of Bidders' representatives who choose to attend. In the event of due date being declared a closed holiday then the due date for submission of Bids and the opening of Bids will be the following working day at the appointed time.

13.3 The Purchaser may at its discretion extend this deadline for the submission of Bids by amending the Bidding Documents in accordance with clause 3, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

14. **LATE BIDS & MODIFICATIONS/WITHDRAWAL OF BIDS**

14.1 Any Bid received by the Purchaser after the deadline for submission of Bids prescribed by the Purchaser, pursuant to clause 13 will be rejected.

14.2 The Bidder may modify or withdraw its bid after the bid's submission provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of bids.

14.3 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of ITB Clause 12. A withdrawal (but not modification) notice may also be sent by cable or fax but followed by a signed confirmation copy, post marked not later than the deadline for submission of bids.

14.4 No bid may be modified subsequent to the deadline for submission of bids.

14.5 No bid may be withdrawn or modified in the interval between the deadline for submission of bids and the expiry of the period of bid validity withdrawal or modification of a bid during this interval may result in the Bidder's forfeiture of its security, pursuant to ITB Clause 9.7.

15. **OPENING OF BIDS BY PURCHASER:**

- 15.1 The Purchaser will open the Technocommercial bid only, in the presence of Bidder's representatives who choose to attend, in the HSCC office, on the due date and time as mentioned in the NIT. The Bidder's representatives who are present shall, sign a register evidencing their attendance. **The Bidders' representatives shall furnish letter of Authority from their principals to attend the Bid opening.**
- 15.2 The Bidders' names, the presence or absence of the requisite Bid Security and such other details in brief as the Purchaser, at its discretion, may consider appropriate will be announced at the opening.
- 15.3 Price Bid of bidders whose offers (Technocommercial bid) are found technically and commercially suitable and comply with the Bid Documents will only be opened on a date to be intimated later to these bidders.
- 15.4 Bids that are not opened and read out at bid opening shall not be considered further for evaluation irrespective of the circumstances. Withdrawn bids shall be returned unopened to the bidders.
- 15.5 Non-submission of bid security by any bidder will render the bidder invalid and such bidder's bid will not be opened.

16. **CLARIFICATION OF BIDS:**

- 16.1 To assist in the examination, evaluation and comparison of Bids the Purchaser may, at its discretion, ask the Bidder for a clarification of its Bid.
- 16.2 Clarifications sought & reply received to be all in writing, no change in price or substance of Bid permitted.

17. **PRELIMINARY EXAMINATION:**

- 17.1 The Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, stamped and whether the Bids are generally in order.
- 17.2 Arithmetical errors will be rectified on the following basis: - If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected (unless in the opinion of the purchaser there is an obvious error in the unit rate, in which case the total price against item would prevail and unit rate shall be corrected accordingly). If the supplier does not accept the correction of the errors, its Bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.
- 17.3 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such a waiver does not prejudice or offers the relative ranking of any Bidder.
- 17.4 Prior to the detailed evaluation, pursuant to ITB Clause 18, the Purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Without prejudice to the generality of the foregoing deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 6) Warranty (GCC Clause 26). Force Majeure (GCC Clause 17). Applicable law (GCC Clause 22) and Taxes & Duties (GCC Clause 24)

will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.

17.5 In normal circumstances if a bid is not substantially responsive, it will be rejected by the purchaser.

18. **EVALUATION AND COMPARISON OF BIDS:**

18.1 The Purchaser will evaluate and compare the Bids on the basis of techno commercial evaluations followed by price bid evaluation.

19. **CONTACTING THE PURCHASER:**

19.1 Subject to Clause 16, no Bidder shall contact the Purchaser on any matter relating to its Bid from the time of the Bid opening to the time the contract is awarded.

19.2 Any effort by a Bidder to influence the Purchaser in the Purchaser's bid evaluation, Bid comparison or contract award decisions may result in the rejection of the Bidder's Bid.

20. **AWARD OF CONTRACT**

20.1 **AWARD CRITERIA:**

Subject to Clause 22, the Purchaser will award the contract to the successful Bidder whose Bid has been determined to be techno commercially acceptable and lowest, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

21. **PURCHASER'S RIGHT TO VARY QUANTITIES AT TIME OF AWARD**

The Purchaser reserves the right at the time of award of contract to increase/decrease the total quantity of Goods and services for which bids have been invited by up to 25% of their value.

22. **PURCHASER'S RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS**

The Purchaser reserves the right to accept or reject any Bid and annul the Bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds of the purchaser's action. The purchaser is not bound to accept the lowest or any bid.

23. **NOTIFICATION OF AWARD AND SIGNING OF CONTRACT:**

23.1 Prior to the expiry of the period of Bid validity, the Purchaser will notify the successful Bidder by registered post/fax that its Bid has been accepted by enclosing detailed order copy in duplicate. This will constitute the formation of the contract and date of the contract shall be the date of each notification.

23.2 Upon the successful Bidder's returning back one copy of the order within 3 days duly stamped and signed as token of acceptance of the order on the said laid out terms and conditions and also furnishing to Performance Security i.e. Security Deposit pursuant to Clause 24, the Purchaser will promptly discharge Bid Security of successful bidder, pursuant to Clause 9, and also discharge bid security of unsuccessful bidders, pursuant to clauses 9.5.

24. **PERFORMANCE SECURITY:**

24.1 Within 10 days of the date of notification under Clause 23.1 the successful Bidder shall furnish the Performance Security/Security Deposit for 5% of the contract price in the form of Crossed account payee demand draft drawn in favour of HSCC (India) Ltd. payable at Noida or New Delhi from a Nationalised/1<sup>st</sup> class Bank.

24.2 Failure of the successful Bidder to comply with the requirement of Clause 23 and Clause 24 shall constitute sufficient grounds for the annulment of the award and the Contract and forfeiture of the Bid Security, in which event the Purchaser may make the award to the next lowest Bidder or call for new Bids.

25. **LOCAL CONDITIONS:**

It will be imperative on each Bidder to fully acquaint himself of all the local conditions and factors that would have any effect on the performance of the contract and cost of the Goods. The Purchaser shall not entertain any request for clarifications from the Bidder regarding such local conditions. No request for the change of price, or time schedule of delivery of Goods shall be entertained after the Purchaser accepts the Bid.

Chief General Manager – Proc.

## SECTION II

### GENERAL CONDITIONS OF CONTRACT (G.C.C.)

#### 1. DEFINITIONS:

- 1.1 In this contract, the following terms (whether or not spelled with an initial capital letter) shall unless the context otherwise requires be interpreted as indicated.
- (a) "The contract" (or "this contract") means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein and includes the Instructions to Bidders (ITB).
  - (b) "The Contract Price/All inclusive lump sum Price" means the price payable to the supplier under the contract for the full and proper performance of its contractual obligations;
  - (c) "The Goods" means all of the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Purchaser under the contract;
  - (d) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services;
  - (e) "The Purchaser" means the organisation purchasing the Goods i.e., HSCC on behalf of the Government of Madhya Pradesh, Gas Relief.
  - (f) "The Supplier" means the individual or firm supplying the Goods and services under this contract;
  - (g) "**Consignee**" means **Indira Gandhi Diagnostic Centre at Polyclinic, Indira Gandhi Institute of Child Health, Kabul , Afghanistan**

#### 2. APPLICATION:

- 2.1 These General "Conditions" shall apply to the extent that provisions in other parts of contract do not supersede them.

#### 3. STANDARDS:

- 3.1 The Goods supplied under this contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods and such standards shall be the latest issued by the concerned institution.

#### 4. USE OF CONTRACT DOCUMENTS AND INFORMATION:

- 4.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the contract or any provision thereof, or any specification, plan, drawing, pattern sample, or information furnished by or on behalf of the Purchaser in connection there with, to any person other than a person employed by the Supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.

- 4.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any documents or information enumerated in para 4.1 except for purposes of performing the contract.
- 4.3 Any document, other than the contract itself enumerated in para 4.1 shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the contract if so required by the Purchaser.

5. **PATENT RIGHTS:**

- 5.1 The Supplier shall indemnify the Purchaser against all third party claims of infringement of patent, trademark, or industrial design right arising from use of the Goods or any part thereof.

6. **CONTRACT PERFORMANCE SECURITY (SECURITY DEPOSIT):**

- 6.1 Within 10 days after the Supplier's receipt of award notification and order copies of the contract, the Supplier shall furnish performance Security to the Purchaser in the amount specified (IFB) in the document.
- 6.2 The Performance Security as deposited by the supplier shall be used by the purchaser as compensation for any loss or any dues recoverable from the supplier (including liquidated damages where applicable) resulting from the Supplier's failure to complete its obligations under the Contract. The Purchaser may retain the whole or such part of it as it considers to be sufficient compensation for such loss. In such an event the balance amount (if any) shall be returned to the supplier not later than the expiry of the period stated in clause 6.3.
- 6.2 The Performance Security unless deposited under GCC clause 6.2 will be discharged by the purchaser not later than 30 days following the date of completion of the suppliers performance obligations, including the warranty obligations under the contract.

7. **INSPECTION & TESTS**

- 7.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the contract. The Special Conditions of Contract and/or the Technical Specifications specify what inspection and tests the Purchaser requires and where they are to be conducted then such specification shall be complied with for the Goods to which it applies. The Purchaser shall notify the Supplier in writing of the identity of any representative retained for these purposes.
- 7.2 The inspection and tests may be conducted on the premises of the Supplier or its Sub-Supplier (s) at point of deliver and/or at the Goods' final destination. Where conducted on the premises of the Supplier or its Sub-Supplier(s), all reasonable facilities and assistance including access to drawings and production data - shall be furnished to the inspectors at no charge to the Purchaser.
- 7.3 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject them and the Supplier shall either replace the rejected Goods or make all alterations necessary to meet specification requirements free of cost to the Purchaser.
- 7.4 The Purchaser's right to inspect, test and where necessary reject the Goods after the Goods' delivery to the Consignee shall in no way be limited or waived by reasons of the Goods having previously been inspected, tested and passed by the Purchaser or his representative prior to the Goods, shipment.
- 7.5 Nothing in Clause 7 shall in anyway release the Supplier from any warranty or other obligations under this contract.

8. **PACKING:**

- 8.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand without limitation, rough handling during transit and exposure to extreme temperature, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate the remoteness of the Goods' final destination and absence of heavy handling facilities at all points in transit.
- 8.2 The packing marking shall show the description of quantity of contents, the name of the consignee and address, the gross weight of the packages, the name of the supplier with a distinctive number of mark sufficient for purposes of identification. Each package shall contain:
- (a) a packaging note quoting the name of the purchaser
  - (b) the number and date of order
  - (c) nomenclature of the goods
  - (d) schedule of parts for each complete equipment giving part number with reference to assembly
- 8.3 Notwithstanding anything stated in this clause, the supplier shall be entirely responsible for loss, damage, deterioration, and depreciation of the goods due to faulty protective & insecure packing and shall arrange for prompt replacement.

9. **DELIVERY:**

- 9.1 Delivery of the Goods shall be made by the Supplier within 12-16 weeks from the date of signing the Contract (or from the date of establishing Letter of Credit in favour of the Principals in case of imported origin Goods) and installation and commissioning to be done wherever applicable within 30 days thereafter at **Indira Gandhi Diagnostic Centre at Indira Gandhi Institute of Child Health, Kabul, Afghanistan**. In case spare parts and tools are also ordered with the Goods, the Bidder will undertake to offer spare parts and tools for delivery along with the main Goods only and not before.

10. **INSURANCE:**

- 10.1 The Goods supplied under the contract shall be fully insured including transit insurance against various risks as required or approved by the Purchaser arising out of transportation, storage, delivery, erection, installation, testing and commissioning at his cost up to delivery at site.
- 10.2 For delivery of goods at site, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "Ware house to ware house" (final destination) on "all risks" basis including war, risks, strikes, erection, storage etc. In any event the Goods are at the suppliers risk until delivery to site.

11. **TRANSPORTATION:**

**To be arranged by Air by the supplier up to consignee (Indira Gandhi Diagnostic Centre at Indira Gandhi Institute of Child Health, Kabul, Afghanistan ) duly insured.**

12. **PAYMENT:**

Both for Indian origin goods and for import origin goods. To be read in conjunction with clause 6.0 of ITB.

- 12.1 The Supplier's request (s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing as appropriate, the Goods delivered and Services performed and by shipping documents, such Goods to be duly certified and wherever applicable supported with documentary evidence in support there of Satisfactory installation duly certified by authorised personnel of HSCC authorities shall accompany for release of balance payment.

12.2 **FOR INDIGENOUS GOODS:**

- i) 80% of the invoice value will be made within 30 days of documentary proof of receipt of the invoiced goods along with necessary documents like transport, transit insurance etc.
- ii) Balance 20% payment subjected to clause 6.1 of ITB will be released within 30 days, upon receipt of satisfactory Installation & Commissioning Certificate from Consignees / HSCC.

12.3 **FOR IMPORT ORIGIN GOODS:**

Payment will be made by opening of Irrevocable Letter of Credit in favour of the foreign supplier. The amount of Indian Agency Commission if, any, out of FOB price will be deducted from the C.I.F L/C value, and this Agency Commission shall be paid in equivalent Indian Currency in India to the Indian agent, subject to clause 6.1(c) of ITB after receipt of satisfactory installation & commissioning report of the equipment. Where there is no agency commission involved, then 5% of FOB Price will be deducted and L/C opened for net of C.I.F value. This L/C will have provisions for release of this deducted amount subject to clause 6.1(c) of ITB only after receipt of satisfactory acceptance report, satisfactory Installation & Commissioning Certificate from Hospital Authorities /HSCC/ Embassy of India, Kabul.

- 12.4 **The stores (both Indians & Import origin goods) should be despatched only after ensuring prudent inspection carried out from ISO Certified Agencies/LLOYDS/SGS etc. and proof of such documents submitted. The cost of such inspection shall be borne by the Supplier only.**

- 12.5 HSCC reserves its right to opt either for the above clause (12.4) or to opt for the clause 27 (i)

13. **PRICES:**

13.1 Prices charged by the Supplier for Goods delivered and Services performed under the contract shall not vary from the prices quoted by the Supplier in its Bid.

- 13.2 In receipt of offer in foreign currency, the exchange rate prevailing on the date of opening of bid (Techno Commercial bid) shall be taken for comparison of bid prices.

14. **DELAYS IN THE SUPPLIER'S PERFORMANCE:**

- 14.1 The time and the date specified in the Contract for the delivery of the Goods shall be deemed to be the essence of the Contract.

14.2 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser.

14.3 An unexcused delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to any or all of the following sanctions, forfeiture of its Performance Security in accordance with Clause 6.2, imposition of liquidated damages and/or termination of the Contract for default.

14.4 If at any time during performance of the Contract, the Supplier or its sub-Supplier (s) should encounter conditions impeding timely delivery of the Goods and performance of the Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice the Purchaser shall evaluate the situation and may at its discretion extend the supplier's time for performance by such period as the purchaser may think fit and shall in the case of Force Majeure extend such time by such period as the Purchaser shall consider fair and reasonable. Clause 14.1 stands extended to include this.

15. **LIQUIDATED DAMAGES:**

15.1 Subject to force - majeure, if the Supplier fails to deliver any or all of the Goods or perform the Services within the time period(s) specified in the Contract the Purchaser shall, without prejudice to its other remedies under the Contract or extended under clause 14.3, the purchaser shall without prejudice to its other remedies under the contract deduct from the Contract price, as Liquidated Damages, a sum equivalent to 0.5% of the price of the delayed Goods or unperformed Services for each week of delay until actual delivery or performance, up to a maximum deduction of 10% of the delayed goods or services contract Price. Once the maximum is reached, the Purchaser may consider termination of contract.

16. **TERMINATION FOR DEFAULT:**

16.1 The Purchaser may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, terminate the Contract in whole or in part.

(a) If the Supplier fails to deliver any or all of the Goods within the time period(s) specified in the Contract, or any extension thereof granted by the purchaser pursuant to Clause 14, or

(b) If the Supplier fails to perform any other obligation(s) under the Contract.

16.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to para 16.1, and without prejudice to the Purchaser's other remedies, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered or unperformed and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods. However, the Supplier shall continue performance of the Contract to the extent not terminate.

17. **FORCE MAJEURE:**

- 17.1 Notwithstanding the provisions of Clauses 6,14,15,16, the Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 17.2 For purposes of this clause and clauses 14.3, 15.1 & 17.3 "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault of negligence and not foreseeable. Such events may include but are not restricted to, acts of the Purchaser either in its sovereign or contractual capacity, wars or sovereign or contractual capacity wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 17.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practicable and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

18. **TERMINATION FOR INSOLVENCY:**

- 18.1 The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, without compensation to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent (which events shall of themselves be a breach of the contract on the part of the supplier), provided such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

19. **TERMINATION FOR CONVENIENCE:**

- 19.1 The Purchaser may, by written notice sent to the Supplier, terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of work under the contract is terminated and the date upon which such termination becomes effective.
- 19.2 The goods that are complete and ready for shipment within 20 days after the Supplier's receipt of notice of termination shall be purchased by the Purchaser at the Contract terms and prices. For remaining Goods the Purchaser may elect:
- (a) To have any portion completed and delivered at the Contract terms and prices; and/or
  - (b) To cancel the reminder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

20. **RESOLUTION OF DISPUTE**

- 20.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

20.2 If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute either party may require that the dispute be referred for resolution to the Indian Arbitration by Indian Council of Arbitration in accordance with the Arbitration & Reconciliation Act 1996 with latest amendments if any.

20.3 Venue of Arbitration shall be at New Delhi.

21. **GOVERNING LANGUAGE:**

21.1 The Contract shall be written in the language of the Bid (English Language) as specified by the Purchaser. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in that same language.

22. **APPLICABLE LAW :**

22.1 The Contract shall be interpreted in accordance with the laws of Union of India.

23. **NOTICES :**

23.1 Any notice given by one party to the other pursuant to the contract shall be sent in writing or by telegram or cable and confirmed in writing to the address specified for that purpose in the Special Conditions of Contract.

23.2 A notice shall be effective when delivered or on the Notice's effective date, whichever is later.

24. **TAXES AND DUTIES :**

24.1 Supplier shall be entirely responsible for all taxes, duties, license fees etc. incurred until delivery of the contracted Goods to the Purchaser.

25. The bid Security of successful bidder will be released after receipt of contract performance security and contract formation under clause of 23.1 of ITB.

26. **WARRANTY (For Equipment):**

26.1 The supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent of current models and incorporate all recent improvements in design and materials unless other wise provided in the Contract. The supplier further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevalent in India.

26.2 This warranty shall remain valid (subject to clause 26.4) for 30 months from date of delivery or 24 months after the Goods have been satisfactorily installed & commissioned as duly certified by the appropriate authority, whichever is earlier.

26.3 The Purchaser shall promptly notify the supplier in writing of any claim arising under this warranty.

- 26.4 Upon receipt of such notice, the supplier shall, with all reasonable speed, repair or replace the defective Goods or parts thereof, free of cost at the site. The Supplier shall take the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the purchaser for the replaced parts thereafter. The warranty period will stand extended accordingly.
- 26.5 If the Supplier having been notified, fail to remedy the defect (s) within a reasonable period, the purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract or in Law.
- 26.6 The Purchaser reserves the right to reject any set of equipment found defective within 30 days after the date of acceptance of equipment. The cost towards replacement will have to be borne by the supplier.
- 26.7 Nothing in this clause 26 shall affect the Purchaser's other rights under the Contract or in Law.

27. **INSPECTION & TEST PROCEDURES :-**

- (i) The Stores will be inspected at Purchaser / HSCC's sole discretion before packing at the manufacturer's premises and on receipt at site by Purchaser / HSCC nominated representatives. The decision of Purchaser / HSCC (I) Ltd. in the matter of acceptability of the stores will be final and binding. In case Purchaser/ HSCC desires, the demonstration/inspection and trials/testing will have to be got conducted at site at no extra cost.

28. **SUPPLY, INSTALLATION AND COMMISSIONING AND WARRANTY SERVICING :( IN RESPECT OF EQUIPMENTS)**

The Supply, Installation and Commissioning of the equipment & trial run have to be done at site by the supplier/or his authorised agent. No additional charges for installation and commissioning will be paid. The Supplier and Indian agent shall be liable for this service for goods of import origin.

29. **TRAINING:**

Free demonstration, out side operational and maintenance training will have to be provided at the site of installation (i.e. at IGICH, Kabul) to the assigned personnel, during trial period for all the equipments except for CT Scan & MRI.

The bidders (for T Scan) are required to provide one month training to the 3 personnel /Technicians identified by the Hospital Authorities for operation of CT Scan. At the site of installation (i.e IGICH, Kabul)

The bidders (for MRI – 1.5 Tesla) are required to provide six month training to the 3 personnel /Technicians identified by the Hospital Authorities for operation of MRI at the site of installation (i.e IGICH, Kabul)

30. **MANUALS: (If required)**

The Supplier has to provide operation manuals and maintenance manuals along-with each equipment. The maintenance manual should give details up to component level and the fault finding procedure with detailed illustrations.

31. **JURISDICTION:**

All disputes arising out of the contract shall (subject to clause 20) be subject to the jurisdiction of the appropriate court at Delhi only.

**Special Note: (Forming part of SCC).**

- i) HSCC is not bound to accept the lowest tender or any tender or to assign any reasons for non-acceptance.
- ii) HSCC reserves right of selection of equipment without restrictions to price factor alone.
- iii) HSCC (I) Ltd. also reserves its right to split an order on more than one party as it deems fit in respect or order for any item.

Chief General Manager (BU-P)

## SECTION III

### SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever, there is a conflict, the provisions herein shall prevail over the General Conditions of Contract.

1. The Performance Security unless deposited under GCC Clause 6.2 will be discharged by the purchaser not later 30 days following the date of completion of the supplier's performance obligations, including the Warranty obligations under the Contract.
2. Insurance: For delivery of goods at site, the insurance including transit insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destination) on "all risks" basis including war, risks, strikes, erection, storage etc. In any event the Goods are at the Supplier's risk until delivery to site.
3. **For Import origin goods quoted, the Supplier or the Indian agent shall have to arrange at his own cost for all import/custom clearance handling formalities. The Suppliers may directly dispatch the Equipments of Foreign Origin to Indira Gandhi Diagnostic Centre at Polyclinic, IGICH, Kabul, Afghanistan instead of first bringing it to India and then dispatching to Kabul. Prior to dispatching the equipments to Kabul, the Suppliers / Manufacturers must inform HSCC and after getting dispatch clearance , the equipments may be dispatched.**
4. A. Minimum Qualification Criteria (For Equipments):  
Qualifying Minimum Requirements:  
(To be supported with documentary evidence)
  - i) Bidder should be a regular manufacturer or an authorised agent for the import origin equipment for the type of stores offered.
  - ii) Bidders should have in the past 5 years, satisfactory executed for each Line item offered, at least one single order of like nature of items and of value or quantity not less than 25% of value of that Line item offered by bidder.
  - iii) The Bidder should submit balance sheet for the last 3 years to enable the purchaser to assess whether the bidder is a profit making concern.  
  
Notwithstanding anything stated above, the purchaser reserves the right to assess the capability and capacity of bidder to perform the contract.
  - v) Clause 13 shall apply for the relevant items.
  - B. Only manufacturers are eligible to bid except in case of Import origin equipments whence Indian agent duly authorised by foreign principal can also quote as per "Manufacturer's authorisation form" provided.
5. Five years Performance Statement: Bidders should give performance statement of orders for similar Line items satisfactorily executed to sizeable value both in quantity & cost in comparison to Line item offered in the price bid.
6. **Bid Form: To be submitted by all bidders as per format enclosed:**

7. In respect of equipment, the charges for 3 years CMC with spares (Comprehensive Annual Maintenance Contract) (after initial warranty period) year wise should be indicated separately & this will be included in the all inclusive lump sum price for purpose of evaluation of bids.
8. **Miscellaneous:**
- a) While quoting for any Line item, all components and quantities specified in the Line item must be quoted. The purchaser will evaluate bid on an individual Line item wise basis. **The bid shall stand rejected if all the components and quantities specified in any line item are not quoted.**
  - b) Evaluation will be made on the basis of total all inclusive lump sum price value offered of each Line items.
  - c) The break up of “all inclusive lump sum price” of any Line item; is also to be furnished in the price offered by bidder.
  - d)
    - i) Bidders are requested to quote for the proven and time tested renowned brands of equipment/accessories having countrywide reputation and acceptance. The Purchaser, however, reserves the right to decide on it’s own as to which of the brand/makes quoted by the bidders are to be considered or not to be considered as proven/reputed, for the purpose of evaluation.
    - ii) No bidder for the purpose of offering lowest price shall quote for local brands/refurbished/ reconditioned stores, which are not time tested, as these would be liable for rejection.
    - iii) Although bidder may quote for more than one brand for the same price, the purchaser shall have the right to select the brand amongst alternatives quoted and its decision will be binding on the bidder.
    - iv) **Bidder in their own interest can quote for items and services separately if in the view of bidder, the purchaser unknowingly omitted or expressively not indicated the requirements of items/services without which, the commissioning or acceptance or otherwise of the equipment of the bidder will be a doubtful proposition.**
  - e) Bidders may please note that Form 'D' may be issued by consignee/ Ministry of External Affairs to avail concessional Sales tax against inter State Sales of Stores.
  - f) The Supplier directly or through his Indian agent wherever applicable will be liable for the contractual obligation including delivering the ordered goods and for undertaking satisfactory installation and commissioning etc. including warranty servicing and AMC.
9. Bidders are to inspect the site premises and the proposed place of installation of equipment and certify their satisfaction that the proposed site is suitable and compatible for the installation of the offered unit. Bidder may take up with consignee for their site visit.
10. Bidders are to ascertain normal power supply fluctuation range and to certify that it is compatible with the offered unit of equipment. A guarantee to such effect should be offered by each bidder along with details of electrical appliances proposed to be deployed for taking care of such fluctuation.
11. Bidder offer should be on a “Turn Key” basis for inclusion of all costs incidental to the same.

12. **for the X-Ray and related equipments in any line item only such of those bidders who have the approval/authorization BARC/AERB shall only be considered and this clause to be read in conjunction with qualifying criteria clause .**
13. The substantial responsiveness of bidder will be determined as per HSCC'S own qualitative internal assessment in consultation with consignee, and with reference to bidders reasonable level of compliance to various stipulated terms and conditions in the Bid Document, Compliance to submission of various documentary supporting evidence, other related information along with the bid, the degree of performance status, and high order value execution for prestigious good clients etc. weightage given to bidder on qualitative basis by the evaluation committee, besides other merits of the bidder such as proven source market reputation, past experience and feed back gained in respect of bidder etc. Accordingly, in line with the above, the purchaser reserves the right as not liable to bidder on account of this prudent internal assessment and that bidder shall have not claims whatsoever.
14. Besides must take into consideration in its bid, costs to be incurred for any additional work pertaining to civil, Electrical, Plumbing, sanitary, Radiation protection as per Govt. regulation, furnitures, servo stabilisers, U.P.S. etc. required for successful installation testing and commissioning of the system and the "All inclusive lump sum price" should include all such costs, each Line item is to be considered a package in itself and suppliers to execute the order package on a "turn key basis".
15. Every effort has been taken to put forth general specifications in this bid documents. If inadvertently, any of the specification drawn happens to match with the specifications of any one particular firm's product only, in respect of critical parameters, than it will not automatically mean that this particular firm's offer is only technically suitable. In general, the specifications offered by other firms will be assessed in their own entirety to ascertain whether or not the board functions in general expected of the equipment are available with reasonable tolerance on the desired requirements of the purchaser and accordingly the offers would be considered based on prudent assessment of the purchaser.

Chief General Manager – Proc.

**Section-IV**

**Schedule of Requirements**

<b>Line No.</b>	<b>Item</b>	<b>Description of items</b>	<b>Quantity (in Nos.)</b>	<b>EMD/Bid Security in INR</b>
<b>I</b>	<b>Equipments for Minor OT &amp; Hospital Furniture</b>			
	1	OT Table – Adult	01	15000
	2	OT Table – Paediatric	01	
	3	OT Light – Portable	01	
	4	OT Light – Fixed	01	
	5	Tool Desk (Instrument Trolley)	10	
	6	Stretchers- Adult	03	
	7	Stretchers- Paediatric	03	
	8	Medical Cupboards	20	
<b>II</b>				
	1	Freezers -20 degree Celsius	03	16500
	2	Freezers -70 degree Celsius	02	
<b>III</b>	1	Electrocautery	03	41000
	2	Laryngoscope – Adult	02	
	3	Laryngoscope- Paediatric	02	
	4	OT Towels	50	
	5	Surgical Set- Complete –Adult	01	
	6	Surgical Set- Complete – Paediatric	01	
	7	Blood Bank Refrigerator	04	
	8	Blood Group Matching Sets	01 Set for 1000 Tests	
	9	Centrifuge	05	
	10	Fridge	05	
	11	Incubators	05	
	12	Reagents & various Chemicals	As per attached list A	
<b>IV</b>	<b>Equipments for Laboratory</b>			
	1	Semi Auto Analyzer Biochemistry	02	29000
<b>V</b>	<b>Equipments for Radiology</b>			
	1.	X-Ray Machine 100 Amp	01	25000
	2.	X-Ray Machine – Portable	03	
<b>VI</b>	1.	Ultra Sound Machine	01	55000
	2.	Ultrasound Machine for ANC Centre	01	

<b>VII</b>	1.	2D Echo/ Doppler	01	70000
<b>VIII</b>	1.	<b>CT Scan</b>	01	200000
<b>IX</b>	1.	<b>MRI – 1.5 Tesla</b>	01	1500000
<b>X</b>	<b>Equipments for Physiotherapy</b>			
	1.	Physiotherapy Set – Adult	01	12000
	2.	Physiotherapy Set- Paediatric	01	
<b>XI</b>	<b>Equipment for Eye Centre</b>			
	1.	Complete Eye check up Set Slit Lamp & other things	02	72000
<b>XII</b>	<b>Equipment for ENT Centre</b>			
	1	Complete ENT Instruments Set with Pure Tone Audiometry	02	80000
	2.	BERA (Brain Stem Evoked Audiometry)	01	
<b>XIII</b>	<b>Equipment for Neurology Centre</b>			
	1.	EEG Machine	01	68000
	2.	EMG	01	
<b>XIV</b>	<b>Equipments for Dental Centre</b>			
	1.	Complete Set of Dental Equipments with all basic Requirements of Dental Lab & Reagents	02	24000
	2	Dental X-Ray Machine	02	
<b>XV</b>	1	Arthroscope	03	27000
<b>XVI</b>	1	Microscopes	20	8000

**Terms of Delivery:** Delivery of the goods shall be made by the supplier within 120 days from the date of signing the contract (or from the date of establishing Letter of credit in favour of the Principal's in case of imported origin goods) as per G.C.C. 9.1.

**Line Item I: Equipments for Minor OT & Hospital Furniture**

## OPERATION THEATRE- MINOR EQUIPMENTS

### **Operation Table (Hydraulic)- Adult**

- Operation Table Universal Frame type, conforming to IS : 5291-1969 with latest amendments, having following features :
  - It shall hydraulically operated with easy operation and adjustments. Fully adjustable.
  - To have facility for height adjustment.
  - Trendelenberg and reverse trendelenberg and lateral lift.
  - The table shall have a minimum of four section viz. Head, Trunk (two sections) and Leg section enabling to achieve any type of operative positions to be achieved.
  - Ability to achieve full range of table accessories to achieve maximum flexibility and potential.
  - Shoulder rest, lithotomy poles, arms rest, anaesthesia screen, IV poles (adjustable height), straps and blocks and clamps to be supplied.
  - Complete with anti - static mattress and pads.
  - Accessory bars to be fitted.
  - Unit shall conform to relevant safety standards and general safety standards for medical equipment as per IS : 8607.
- 

### **Operation Table (Hydraulic)- Paediatric**

- Width 30-40 cm, 3 section with mattress density 38-40 covered with foam leather cover
- Hydraulic
- Translucent top, cassette holder, translucent bars.
- Adjustable height and Reverse Trendelenberg position and side tilt.
- With standard accessories, anaesthetic screen, IV Rod, Padded side arms rest, lithotomy leg holders.

---

### **OT Light (Shadow less)- Fixed**

- Fully balanced easily maneuverable shadow less OT ceiling lights (Halogen lamps 24V, 50W, minimum seven) with filter to ensure glare free, cool and brilliant white light.
- Bulbs : Easily replaceable halogen bulbs, replacement must be without using any tools.
- Reflectors : Dichroic glass reflector approx. 145mm.
- Diameter : 710mm to 750mm
- Light Intensity : 1,20,000 lux or more. Colour temperature : 4000 +/- 30 (certificate to be given)
- The dome should have a perfect parabolic reflector.
- To be provided with detachable, sterilisable handle.
- Should have a variable intensity control.
- Power Supply : 200 to 230 V AC, 50 Hz with automatic switch over to battery back up system having the charging system able to change the exhausted battery and with at least two hours operation.
- Handle for focusing light.
- **Accessories** : Two spare bulbs and two spare focusing handles. To be provided with all necessary fitting at attach to the ceiling.
- Unit must conform to relevant electrical and general safety standards.

### **Tool Desk (Instrument Trolley Plain -S.S.)**

- Frame : Argon welded & S.S. tubular rust free construction.
- Top : Two rust free S.S. shelves conforming with protective side railing on three sides.

- Castors : 8cm/7.5cm dia. wheel type swiveling castors having antistatic rubber tread.
- Shape & Dimension : Overleaf size 660mm L x 430mm W x 830mm H as per IS-5631-1970.
- Material Used : Vertical S.S. tubes of 25mm x 18G. Longitudinal S.S. tubes of approx. 19mm x 18G. Railing of S.S. 10mm rod. Stainless steel up of 21G shelves.
- Finish : Finish bright.

#### **Stretcher (Folding)- Adult**

- S.S. Tubular bars
- Top - Canvas high quality
- Size : 213-215cm (L), 55-57cm (W), 13-15cm (H)
- Should have metal cross support
- Legs fitted with P.V. stumps.

---

#### **Stretcher (Folding) Paediatric**

- S.S. Tubular bars
- Top - Canvas high quality
- Size : 150-160cm (L), 55-57cm (W), 13-15cm (H)
- Should have metal cross support
- Legs fitted with P.V. stumps.

#### **Medical Cup Boards (Medicine Cabinet)**

- Steel almirah (1800mm +/- 10mm) x (850mm +/- 10mm) x (480mm +/- 10mm).
- A pair of hinged doors & handle with internal locking arrangements with four fixed shelves making five partitions.

- Built of 18 SWG CRCA sheet throughout including shelves and leg support. Colour - Sky Blue.
- The foot mounts of the almirah should be of totally anti rust material of 120 mm height covering almost the entire depth.
- Almirah should be fitted with a lock of 6 lever confirming to IS : 729:1979 or equivalent.
- The above product should conform to applicable ISI standard in respect of material, welding process, test & performance.

**Line Item II:**

### **Freezer - 20<sup>0</sup> C.**

- General : Vertical type with twin door and adjustable shelves.  
Capacity : 250 to 300 liters. Temperature range to - 20<sup>0</sup> Celsius  
Accuracy  $\pm 1^0$  Celsius  
Must be able to perform at an ambient temperature of 40<sup>0</sup> Celsius
  - Starting Temperature Range : For recording temperature - tolerance limit (-) 8<sup>0</sup> C to (-) 20<sup>0</sup> C.
  - Power Supply : 230  $\pm$  1- Volts, 50 Hz.
  - Voltage Stabilizer : Voltage regulator of appropriate rating to be included to cope with 160-260 V.
- 

### **Deep Freezers (-70<sup>0</sup> C)**

- General : Range to 80<sup>0</sup> C (adjustable), upright cabinet, internal capacity - minimum 300 liters nett.
- Starting temperature range : For recording temperature - tolerance limit (-) 60<sup>0</sup> C to (-) 75<sup>0</sup>C.
- Construction : Cabinet casing of phosphated cold rolled sheet steel to prevent corrosion high quality acrylic varnish and lockable castors. 5 or 6 shelves of stainless steel of min. 22 G. Inner case of stainless steel of 0.8mm min.  
High density polyurethane or equivalent gaskets, double seal section.
- Control System : Microprocessor temperature controller with digital display. 7 graphic inkless temperature recorder with maintenance free battery back up including charger.  
Details of battery and details of charger to be supplied.
- Refrigeration System : Heavy-duty maintenance free refrigeration system with hermetically sealed refrigeration compressors and reliable cascaded refrigeration to minimize noise and vibration. Air-cooled with security lock to prevent unintentional switch off. Short cooling time of 4 to 5 hours at 40<sup>0</sup> C ambient temperature. The equipment should be o continuous duty and frost-free. Access port of CO<sub>2</sub> back up.

Audio-visual electronic alarm system independent of power supply.

- Voltage Stabilizer : Voltage regulator of appropriate rating to be included to cope with 160-260 V.
- Power Supply : 220/240 Volts, 50 Hz, single phase.

**Line Item III:**

## **Electrocautery**

- Trolley mounted unit approx 300 H x 400 W x 3000 D mm.
- For Uni - Polar diathermy, inclusive of Bi Polar attachment.
- Suitable for cutting and coagulation under water fitted with alarm. Alarm should be both visual and audible.
- Complete with foot switch & cable, patient plant & cable, 6 meters of mains lead. Trolley.
- With range of electrodes and forceps, ball, loop needle etc.
- Power supply 210-230V, AC/50Hz.
- Unit should have digital display of output power in various modes of operation.
- Approximate power output should be as follows.
- Cutting-300W, coagulation - 120 W, Blend - 150/300W.
- Equipment must conform to relevant safety and general safety standard for medical equipment per IS : 8607.

---

## **Laryngoscopes with Cells**

- Mackintosh laryngoscope, curved blade.
- Stainless steel blade set comprising of 1 each :
- Adult : 130mm x 18mm, Child : 100mm x 17mm, Infant 92mm x 14mm.
- Handle should have serration, light source - bulbs, spare bulbs (6 Nos.)

---

## **Baby Laryngoscope with 3 size blades**

- It should conform to Miller type design with batteries.
- Standard illumination, three straight blades No. 0,1 , 2.
- 6 spare lamps with each laryngoscope.

## OT Towels

---

### General Surgery Instrument Set (Adult)

·	Artery forceps :		
-		Mosquito	
-		Straight (150 & 200mm)	12 Nos.
-		Curved (120 & 200mm)	12 Nos.
·		Tissue Forceps (Medium size)	
-		Kockers straight	4 Nos.
-		Allis's	4 Nos.
-		Bobcock's	4 Nos.
-		Lane's	4 Nos.
·		Sponge holding forceps 25cm	4 Nos.
·		Cheate's forceps	2 Nos.
·	Dessecting forceps		
-		Non tooth 150 & 200mm	4 Nos.
-		Toothed 150 & 200mm	4 Nos.
·	Retractors		
-		Langenbeck	4 Nos.
-		Czerny	4 Nos.
-		Morison	Set of 3 - 2 Nos.
-		Deaver's (different blades width)	Set of 3-2 Sets
-		Park's annal retractor	2 Nos.
-	Self retaining		
-		Balfour with central blade	2 Nos.
-		Bladder retractor	2 Nos.
·		Towel clips (Back haus/ Mayo)	12 Nos.
·	Scissors		

-	Mayo/ straight	2 Nos.
-	Curved	2 Nos.
-	Stitch removal scissor	2 Nos.
-	Metzanbaum	2 Nos.
·	Needle holder (20 & 25cm)	2 each
·	B.P. Handle (No. 3 & 4)	2 each
·	<b>Intestinal Clamps</b>	
-	Crushing (Payer's)	1 Set
-	Non crushing (Doyen's)	1 Set
·	Right angled artery clamps (20 & 25cm)	2 each
·	<b>Gall bladder</b>	
-	Cholecystectomy clamp	2 Nos.
-	Desjardin's forcep	2 Nos.
-	Scoop	2 Nos.
·	<b>Gastrectomy</b>	
-	Crushing (Payer's clamp)	01 No.
-	Non crushing stomach clamp	01 No.
·	<b>Kidney (Genito Urinary)</b>	
-	Pedical clamp (double angled)	01 No.
-	Stone holders forceps (Randall's)	01 No.
-	Gilverny retractor's	01 No.
-	Urethral dicators	01 Set
-	Cysto lithotomy forcep	01 No.
·	<b>Chest</b>	
-	Finochete retractor	01
-	Periosteum elevator - Farabenf	01 Set
-	Doyen's Tr & Lf periosteum elevators	02
-	Bone cutting double action	02
-	Bone holding forcep	02
-	Bone Nibbler	02

- Rib approximator (Bailey's) 02
- Trocar & Cannula (33, 27, 23F) 01 each

**General Surgery Instrument Set (Pediatric)**

· Artery forceps :

- Mosquito
- Straight (5.5 inches) 12 Nos.
- Curved (5.5 inches) 12 Nos.

· Tissue Forceps

- Kockers 4.5 inches 4 Nos.
- Allis's 4.5 inches 4 Nos.
- Bobcock's 4.5 inches 4 Nos.
- Dissection Forcep serrated 1x2 teeth 4.5 inches 4 Nos.

· Retractors

- Czerny's 6.5 inches 4 Nos.
- Finger Retractor 7 inches 4 Nos.

- Hook retractor

- Double Hook 6 inches 4 Nos.
- Single Hook 6 inches 4 Nos.
- Abdominal (Balfour ) Trivalve 2 Nos.

Children size

· Scissors

- Mayo/ straight 5.5 inches 2 Nos.
- Curved - 5.5 inches 2 Nos.
- Stitch removal scissor 2 Nos.
- Metzanbaum 6 inches 2 Nos.

· Needle holder (20 & 25cm) 5.5 inches 2

· B.P.Knife Handle (No. 3 & 4) 2

· Cheatle Forcep - 2Nos.

Sponge Holding Forcep 5.5 inches 4 Nos.  
Towel clip Holder 12 nos.

· Chest

- Periosteum elevator - Children Size 2 each  
Right & left
- Thoracic Retractor- Children size 2 Nos.
- Rib approximature - children size 2 Nos.

· Aspirating Bronchoscope with 2 lamp Carriers - 01 Set  
with

Light Projector  
Spare bulb 3.5 V  
Aspiration Tube

Forcep extra fine for use through Bronchoscope

Biopsy forcep extra fine for use through Bronchoscope

Proctoscope - child size 7.5 Cm x 3/8 inches dia

### **Blood Bank Refrigerator**

- Capacity Unwrapped : 350 bags of 450 ml
- Temperature rating : 4 Deg. C
- Digital temperature, display and controller seven days graphic inkless temperature recorder with rechargeable battery backup including charger.
- Refrigerator with air circulation, interior cabinet lights.
- 100% CFC free refrigerant and foamed insulation.
- Construction : Epoxy coated interior and exterior surface for easy cleaning.
- Six fully extendable, stainless steel drawers.

- Dual-pane glass viewing door with keyed door locks.
- Audible and visual power failure indicator.
- Line Voltage corrector
- Single phase automatic line voltage corrector, conforming to IS : 9815 : 1989 with latest amendment, fitted with a voltmeter and switch to indicate output/ input as under :
- Capacity/ rating : As per equipment requirement.
- Input voltage : 160 to 260 volts, 50 cycles, single phase AC.
- Output voltage : 220 to 240 volts adjustable.
- Equipment should be supplied with 2-meter cord at input and fitted with plugs of appropriate rating (15A).
- Operating temperature at 4 Deg. C. The temperature should be uniformly maintained within the interior cabinet with a accuracy of  $\pm 1$  Deg. C. Regardless of ambient temperature fluctuations or defrosting time, the temperature should be precisely controlled.
- Forced air circulation ensuring even temperature distribution throughout the cabinet.
- Air circulation should switch off automatically while the door is open.
- The built-in alarm system with audible and visual warning indicators while exceeding of the high and low temperature alarm setting (3 Deg. C and 7 Deg. C) or power failure.
- Soft self-closing door mechanism, lock to prevent unauthorized access and inner acrylic doors for additional insulation leave nothing to be desired.
- The equipment must conform to relevant GMP, safety and general electrical standards for Medical Equipment.

---

### **Blood Grouping & Matching Set**

- Anti A, Anti B, Anti AB and Anti D. (Rhesus) - Quantity for 100 Tests.
- Known positive and Negative Samples ABO and Rhesus Control- all in 10 ml packs individually.
- Slides 12 Dozen

- - Pipette 2 Nos, Viewing Box, Mixing Sticks 1 Pack, Lancet for withdrawing Blood.
  - Unit must confirm to HE 140 or IEC 1010 or Equivalent.
- 

### **Microprocessor Controlled Centrifuge**

- Microprocessor controlled centrifuge with programme memory having facility to preset and memorise RPM, Temperature & timer,  
Max. speed 10,000 RPM  
12 x 50ml angle head  
36 x 15 ml angle head  
24 x 1.5 ml angle head  
Swing out rotor for buckets & tubes  
Automatic imbalance cut out  
Rotor over speed protection  
Audible alarms when rotor stops.
- 

### **Refrigerator 165 Liters**

- Domestic refrigerator (mechanically operated) suitable for operation on 230 plus minus 10% volts, 50 Hz, single phase AC supply complete with automatic temperature control and conforming to IS : 1476 : 79 with Amdt. No. 1 to 4.
- The refrigerator should also have the following special features :
- Inside or door should be provided with racks for convenient storage of bottles. Door hinges and latches should be heavily chromium plated type/ stainless steel.
- The compressor units to be hermetically sealed as per IS : 10617 (P-3)/83 with Amdt. No. 1 covered by manufacturers guarantee for at least 5 years. The five years guarantee is required on the complete hermetically sealed units and not on the compressor units only. They are also required to give the type test certificate of hermetically sealed compressor from the manufacturer as per IS : 10617/83 (Part 3) with Amdt. No. 1.
- The refrigerator should be complete with drip tray, inside lighting arrangement and defrosting arrangements frost free.
- The rated energy consumption for refrigerator under test conditions as specified at clause 10, 11 of IS : 1476/79 shall not be more than the following :

- 165 liters - 2.25 KWH per 24 Hours. Insulation used shall be PUF (Polyurethane foam) and thickness on insulation used shall be declared.
  - Overall power factor of the refrigerator at conditions as per clause 10, 11 of IS : 1476/79 at 230 volts shall be declared. Refrigerator shall be with table top.
  - In case of any deviation, complete details along with quotation (in triplicate). During inspection production routine test as mentioned in clause 7.2 of IS : 1476/79 with Amdt. No. 4 will be carried out as acceptance tests on 10% lot offered for inspection at manufacturers works. Please confirm that essential spares and components of the refrigerator will be likely to be in demand to keep the machine in good condition for at least of 10 years shall be maintained by them.
- 

### **Incubator**

- A latest model of Incubator with upgradable capability.
  - **Technical Data :**
  - Temperature Range : Ambient to 70<sup>0</sup>C
  - Number of shelves : 3  
(Standard) 10 (maximum)
  - Stainless steel inner chamber (w x h x d) 470 x 607 x 530 mm app.
  - Microprocessor - based control. Digital temperature controller-cum-indicator.
  - Auto start function
  - Help Key (1-Key) for accessing information
  - "Locking" of nominal values through key-operated switch
- 

### **Reagents and various chemicals**

## IGICH POLYCLINIC LAB

<u>STAINS</u>		
<b>S.NO.</b>	<b>ITEM</b>	<b>QTY</b>
1	Gram's Stain	3 Lit
2	Giemsa powder	2 Kg
3	Pap Smear Stain	5 Lit
4	Giemsa powder	(25 gr) 250 bottle
5	Leishman powder	(25 gr) bottle 200
6	Heamatoxylin	2 Kg
7	Fast Blue	1 Kg
8	Brillant Crystal Blue	2 Kg
9	Field Stain A	5 Lit
10	Field Stain B	6 Lit
11	Methyl Green	2 Kg
12	Toluidine Blue	2 Kg
13	Nuclear Fast Red	1 Kg
14	Crystal violet	2 Kg
15	Basic Fuschin	1 Kg
16	Methyl Green	2 Kg

**LABORATORY REAGENTS/CHEMICALS**

S.NO.	ITEM	QTY
1	Ethanol alcohol	100 lit
2	Xylol	2 lit
3	Glacial acetic acid	5 lit
4	Methyl alcohol	50 lit
5	Trisodium citrate	10 Kg
6	Sulphosalicylic acid	20 Kg
7	Thiosemicarbazide	5 Kg
8	Lead sab acetate	2 Kg
9	Aluminium sulphate	5 kg
10	Jenner Powder	2 Kg
11	Safranin	2kg
12	Clay	2 Lit
13	Copper Sulphate Solution	5 Kg
14	Calcium Chloride	5 Kg
15	Procain Hydrochloride	1 Kg
16	Magnesium Sulphate	1 Kg
17	Diethyl aminoethyl (DEAE) (Sephadox suspension) for HbA2	4 box
18	kh2 PO4	4 Kg
19	L. Tartaric Acid	2 Kg
20	Normal Acetate solution	1 lit
21	Para rosalin Hydrochloride	1 Kg
22	Activated Charcoal	2 Kg
23	Periodic acid	1 Kg
24	Starch for electrophoresis	5 Kg
25	Tris buffer	5 Kg
26	Amido black powder	1 Kg
27	Na2 Hpo4	5 kg
28	N2 2Hpo4.2H2o	5 kg
29	Ammonia Solution	2 lit
30	Sodium Nitrite	2 Kg
31	Glucose Powder	5 Kg
32	Pure benzedine base	5 Kg
33	Nephthol As-B1 Phosphate	2 Kg
34	N.N Dimethyl Formamide	2 lit
35	K.Ferrocyanide	5 Kg
36	K.Cyanide	5 Kg
37	Sod. Bicarbonate	5 Kg
38	Aluminium sulphate	2 Kg

39	Sodium Acetate	5 lit
40	Oil Immersion	5 lit
41	Phenylalanine diminase test	10 Kg
42	Ether	10 lit
43	Iodine Crystal	20 Kg
44	K iodide	10 Kg
45	C <sub>2</sub> N <sub>5</sub> OH	10 Kg
46	ZnSo <sub>4</sub> . 7H <sub>2</sub> o	2 Kg
47	Fast blue R R salt	25g
48	Chloroform	5 lit
49	Sodium isobarbitone	5 Kg
50	Sudan black powder	1 Kg
51	Phenol crystal Na acetat 3H <sub>2</sub> O	1 Kg
52	Sodium Acetate	1 Kg
53	Periodic acid	3 Kg
54	Acetone	5 Litre
55	Eosinophil diluting fluid	1 litre
56	Hydrogen Peroxide	10 lit
57	L. Tartaric Acid	2 lit
58	Sodium Nitroprusside	2 Kg
59	Trichloro acetic acid	10 lit
60	N.N Dimethyl Formamide	5 lit
61	Gelatin	1 Kg
62	Alpha Naphtyl acetate	200g
63	Ethylene glycol mono methyl ether	1 lit
64	Conc H <sub>2</sub> So <sub>4</sub>	5 lit
65	Conc HCL	5 lit
66	Thromboplastin	50
67	NaoH	5 Kg
68	Ph. Paper	5000 paper
69	EDTA	5 Kg
70	Losing powder	5 Kg
71	Sod. Chloride	5 Kg
72	CH <sub>3</sub> COONA 3H <sub>2</sub> O	2 lit
73	NaOH 1 Normal	2 Lit
74	Formalin	20 lit
75	Fluoride	10 Kg
76	Benedicts Reag	50 lit
77	Platelet diluting fluid	5 lit
78	Ammonium Oxalate	2 Kg
79	Reticulocytes count reag	10 lit

80	N/10 HCL	5 lit
81	Drabkins Reag	10 lit
82	Akaline peptone water	5 Kg
83	Selinotts reagent	5 lit
84	Glycerol	5 lit
85	Fouchets Reagent	2 Lit

**CULTURE**

<b>S.NO.</b>	<b>ITEM</b>	<b>QTY</b>
1	Columbia Broth	5 kg
2	Petri Dish	2000
3	Antibiotic sensitivity discs	15000
4	Sabouraud dextrose Agar	10 Kg
5	Salmonella - Shigella Medium	10 Kg
6	Selenite Broth	10 Kg
7	Stock Culture Medium	10 Kg
8	Tellurite chocolate Agar	10 Kg
9	Thiosulphate citrate bile sucrose Agar	10 Kg
10	Transport medium	15 Kg
11	Tryptone soya broth	10kg
12	Yersinia selective Agar	10 Kg
13	Motility indole urea medium	10 Kg
14	Mueller hinton chocolate Agar	10 Kg
15	Nitrate Broth	10 Kg
16	Pseudomonas fluorescence Agar	10 Kg
17	Aminoacid decarboxylase medium	5 Kg
18	Anaerobe chocolate Agar	5 kg
19	Bile Esculin Medium	5 Kg
20	Blood Agar	5 Kg
21	Blood Culture bottle	5000
22	Bordetella Medium	10 Kg
23	Campylo bacter Medium	10 Kg
24	Chocolate Agar	10 Kg
25	Citrate Agar Simmons	10 Kg
26	Clostridium difficile Medium	10 Kg
27	Dermasel Agar	10 Kg
28	Dorset EGG Medium	10 Kg
29	EGG Yolk Lactose Agar	10 Kg
30	Esculine Hydrolysis	10 Kg
31	Gelatine Hydrolysis	10 Kg
32	GC Selective Agar	5 Kg
33	Hippurate Hydrolysis	5 Kg
34	Kliglers Iron Agar	5 Kg
35	Lowenstein Jensen Medium	10 Kg
36	Media for CS F	2500
37	Media for AFB Culture	2500
38	Media for diptheria Culture	2500
39	Filaria Antigen	50

40	Nutrient Agar	10 Kg
41	Agar for electrophoresis	5 Kg
42	Thioglycolate semisolid agar	10 Kg
43	Hym's solution	2 Lit

**KITS**

<b>S.NO.</b>	<b>ITEM</b>	<b>QTY</b>
1	Herpes Zoster/Varicella IgM	100 test
2	Herpes Zoster/Varicella IgM	100 test
3	Hydatid serology	50 test
4	Mumps virus Igm	50 test
5	Mycoplasma pneumonia Igm	50 test
6	Mycoplasma pneumonia IgG	50 test
7	Paul Bunnel Test	50 test
8	TB Antibody Iga	50 test
9	TB Antibody IgG	50 test
10	TB Antibody Igm	50 test
11	Ketosteroid	25 test
12	Serum Amylase	200 test
13	Serum Cortisol	100 test
14	Human Growth Hormone	100 test
15	Serum Pyruvate	100 test
16	Stone ananalysis	100 test
17	Herpes Simplex Virus IgM	100 test
18	Herpes Simplex Virus IgG	100 test
19	Anti thyroglobulin Antibody	100 test
20	Immunoglobulin IgA	25 test
21	Immunoglobulin IgE	25 test
22	Immunoglobulin IgG	25 test
23	Immunoglobulin IgM	25 test
24	LE Phenomenon	50 test
25	Chopra Aldehyde test	100 tests
26	Serum folic Acid level	50 test
27	Combs Kit (by gel card method)	100 tests
28	LDH	100 tests
29	Angiotensin converting enzyme	25 tests
30	Hemoglobin A1C	250 test
31	Urine Microalbumin	50 test
32	Serum Uric acid	1000 tests
33	Serum Carbmazepine	50 test
34	Serum Digoxin	50 test
35	Serum Phenytoin	50 test
36	HIV (1 and 2) tridot	500 test
37	Blood Sugar	2000 test
38	Cholesterol	2000 test
39	Lipid profile kits	1000 test

40	Serum Calcium	1000 test
41	Serum Phosphorus	1000 test
42	Alkaline Phosphatase	1500 tests
43	Serum Bilirubin (Direct + Indirect)	2000 tests
44	SGOT Kit	2000 tests
45	SGPT Kit	2000 tests
46	Potassium	500 tests
47	Sodium	500 tests
48	Chloride	200 tests
49	Protein (Total, Albumin, Globulin)	1000 test
50	Acid phosphatase	50 tests
51	Urea Creatine kits	2000 tests
52	Serum Valproic acid	50
53	H.Pylori Antigen	50 test
54	H.Pylori IgG Antibody	50 test
55	H.Pylori IgA Antibody	50 test
56	H.Pylori IgM Antibody	50 test
57	Hepatitis A IgM Antibody	100 test
58	Hbs AG kits	2000 test
59	Anti HCV Antibody	1000 test
60	Hbs Antibody	100 test
61	PRL	20 test
62	Prothrombin time	500 test
63	APTT	500 test
64	Montoux Test	3000 test
65	24 Hour Urine protein Kit	200 test
66	G6PD Kits	200 test
67	Sodium metabisulphate	8 kit
68	Factor 8 level	50 test
69	Factor 9 level	50 test
70	LH	20 test
71	FSH	20 test
72	Lithium	20 test
73	Theophylline	50 test
74	ASO	2000 test
75	RF	2000 test
76	CRP	200 tests
77	Toxoplasmosis (IgG & IgM)	100 test
78	Widal Kit	2000 test
79	Brucellosis	500 test
80	Rubella (igG & IgM)	200 test
81	VDRL	500 test

82	CMV (IgG & IgM)	100 test
83	Pregnancy	1000 test
84	GGT Kits	100 tests
85	ANA Test	500 test
86	Stool occult blood kit	1000 test
87	Ammonia	20 test
88	CPK total	100 test
89	CPK MB	100 test
90	Na Azide	20 test
91	TIBC	50 test
92	Ferritin	50 test
93	PNH Kit (by gel card method)	20 test
94	Cholinesterase	20 test

**REAGENTS FOR METROLAB 2600 TRACE COMPANY**

<b>S.NO.</b>	<b>ITEM</b>	<b>QTY</b>
1	Urea	4 lit
2	Creatinin	4 lit
3	Protein total	2 lit
4	Albumin	2 lit
5	Globulin	2 lit
6	Bilirubin total	2 lit
7	Bilirubin Direct	2 lit
8	SGOT	2 lit
9	SGPT	2 lit
10	GGT	2 lit
11	CPK	1 lit
12	Alkaline Phasphatase	2 lit
13	Acid Phosphatase	1 lit
14	Amylase	2 lit
15	Uric acid	3 lit
16	HDL	1 lit
17	LDL	1 lit
18	VLDL	1 lit
19	Sodium	1 lit
20	Potasium	1 lit
21	Lithium	1 lit
22	Glucose	5 lit
23	Calcium	2 lit
24	Phosphate	1 lit
25	Control normal	20 Kit
26	Control abnormal	20 Kit
27	Caliberator	20 Kit

**Line item IV: Equipment for laboratory**

## **Semi Auto Biochemistry Analyzer**

- Should be open system and user friendly.
  - Minimum 7 interference filters.
  - Flow cell with 10mm optical path.
  - Flow cell temperature Peltier cell controlled, programmable from keyboard, +/- 0.1 precision.
  - Programmable peristaltic pump for aspiration and washes.
  - Halogen lamp with extended UV emission.
  - Minimum 50 methods stored on EPROM.
  - 6 different types of basic tests, end point, kinetic, fixed time, bichromatic, absorbance, coagulation time.
  - Calibration standards for each method.
  - Graphics of calibration curve.
  - Graphics of kinetics and optical densities.
  - Graphics of controls.
  - On screen display of final and intermediate results.
  - Inbuilt or external printer with printing facility of final results, intermittent results & graphics.
  - Parallel interface for external printer.
  - Serial output : standard RS 232, for host computer connection with standard data transfer.
  - 3 cell system (flow cell, disposable cell, coagulation cell).
  - Should be able to work under Indian conditions of mains power supply of 180-240 VAC, 50 Hz with suitable online UPS with voltage and spike protection features and 60 minutes battery back up.
-

**Line item V: Equipments for Radiology**

### **100 mA X-ray Machine**

- Technical specification : The offered equipment should be of the latest technology and should provide maximum X-ray dose out put at the least Radiation Exposures.
  - Multiples X-ray generator should be of 8 KW or above preferably high frequency.
  - The unit should provided minimum 100 mA.
  - The exposure time should be 10ms to 5 sec.
  - The timer should be of microprocessor controlled.
  - Seriolography capabilities should be for more than 2 fps.
  - The focal spot size of X-ray tube should be 2.8 x 2.8 mm less. The unit with smaller size focal spot size will be given preference.
  - The unit should be able to give an output of minimum 200 mA.
  - 5 position manual table with trendelberg position at -12 Deg. with floor to ceiling counter balanced column stand and counter balanced motorized bucky.
  - The unit should have the provision for fluoroscopy with 1, 2, 4 spots.
  - The equipment should be certified by BIS & AERB for safety regulation.
- 

### **100 mA Mobile X-Ray Unit**

- Mobile X-ray unit using high frequency two pulse/ multipulse technology with at least 20 KW power output with maximum current of more than 400 milliamperes.
  - It should be possible to operate the unit from a 230 V - 15A three-pin socket available in the wards.
  - The unit should have a range of 40 to 125 KV and upto 100 mAs.
  - The shortest exposure time should be 1 millisecond for paediatrics.
  - The unit should have easy maneuverability and the arm should have along reach to cover the patient at the bedside.
-

**Line item VI:**

### **Ultra Sound Scanner (Linear, Convex & Trans Vaginal)**

- A microprocessor controlled ultrasound equipment which is suitable for performing all general multipurpose studies including Abdominal , Obstetrics and Gynecology, Small Parts, Paediatric, Cardiac, Orthopaedic, Musculo-Skeletal and Urology.
- It should have the following specifications :
- Full field digital scan converter.
- 2 or more probe connectivity with facility to switch between the transducers with a single keystroke. The unit should have following broadband. Multifrequency (at least 2 selectable frequencies) electronic transducers.
- 3.5 MHz (Multi Frequency) standard convex sector probe.
- 7.5 MHz (Multi Frequency) linear probe for soft tissues and small parts.
- Intra - cavitary probe for trans vaginal and trans rectal applications.
- Alphanumeric keyboard with backlit control panel.
- 30 cm or more high-resolution, non-interlaced monitor with tilt and swivel facility.
- Image display modes-B-mode, M-mode, B+B, B+M (Horizontal and vertical formats) modes.
- Pan, read and write to a zoom-in, real-time or frozen image.
- System dynamic range should be 60db or better, 256 gray shades, pre and post-processing functions, at least 8-step DGC control.
- User-defined presets for various exams, pictograms and annotations.
- Upto 4 user - positionable focal zones, imaging depth upto 24 cm, high frames rates should be 60 fps or better.
- General and exam-specific measurements and calculations on real-time, frozen, cine or VCR playback. Images :
- Distance, circumference (ellipse or trace), Area, volume, ratio, heart rate, slope.

- Obstetrics-basic and enhanced package with various measurements like EFBW, LMP, EDD by LMP, average Gestational Age, Obstetrics & Gynecological Tables along with space for remarks.
  - Multiple author selection, user-defined tables and formulae, growth graphs.
  - Gynecology measurements of ovary, uterus, cervix, endometrium.
  - Prostate volume, hip angle, ejection fraction, thyroid volume exam specific reports.
  - Mobile trolley with foot switch.
  - Online storage of minimum 2000 images. 3.5" floppy disk drive for archival, with 10 floppies
  - To be supplied with suitable thermal printer & 6 printer rolls.
  - Should be able to work under Indian conditions of mains power supply of 180-240VAC; 50 Hz.
  - To be supplied with suitable online UPS with constant voltage & constant frequency supply with spike suppression & fluctuation protection features having 60 minutes battery back up with maintenance free batteries.
  - Item must conform to relevant and safety standards. It must conform to electrical safety standard.
  - System must be DICOM compatible (Quote as an option the cost of DICOM ready equipment).
-

**Line item VII :**

## **Colour Doppler Ultrasound Machine**

- Must to state-of-the-art digital colour doppler ultrasound system.
- Must be suitable for imaging; radiology, abdomen, vascular, superficial and small parts.
- Obstetrics & Gynecology and for cardiac applications.
- The system must therefore have all softwares and hardwards for the above applications with the most current state of the art technology.
- Must have 57,000 imaging channels.
- Must have 15 million or more color shades.
- Multiple coherent beam former using the full spectrum of phase and amplitude.
- Must have at least 3 active transducer ports.
- Must have pinless transducer connectors.
- Must have 14" or larger high resolution non interlaced monitor.
- Multifrequency imaging - 5 frequencies in 2D mode, 4 frequencies in colour, 2 in PW.
- Transducer to provide minimum image slice thickness with broad band width
- System dynamic range should be more than 160 dB
- Colour doppler velocity and energy capability.
- Tissue doppler imaging with harmonics
- Contrast imaging with harmonics
- Differential echo amplification with colour
- Frame rate upto 940 frames/ sec.
- Penetration should be upto 36 cms
- Must have automatic doppler calculation facility.

- Inbuilt ultrasound workstation with static image and dynamic clip storage facility
- Capability of doing extended field of view panoramic imaging with live colour
- Capability of doing 3D imaging.
- Must have facility for networking and communication images on DICOM format.
- Capability of doing automatic edge assisted EF calculation package.
- **Probes :**
- Curvilinear for routine abdominal, obstetrics & gynecology etc.
- Sector probe for cardiac; adult & paediatrics
- Vascular and superficial/ small parts - high frequency linear
- TV/ TR (endocavitary)
- Must include biopsy attachment facility
- Transcranial sector probe (optional)
- **Documentation/ Archiving**
- Must have CD drive with CD writer (built in) for archiving ultrasound images.
- B/W thermal printer
- Colour laser/ inkjet printer and other medical colour imager for direct printing of coloured images.
- State-of-the-art PC with combo drive with CD writer, colour laser/ inkjet printer with PC table. Film grabber (optional)
- UPS 3 KVA
- Must include large patient trolley with wheels with locking facility
- Must include Godrej Steel almirah
- Scan time of 1 sec.
- Gantry tilt of  $\pm 20$  Deg.

- Gantry aperture of more than 60 cms.
  - Independent rows of detectors with max. acquisition capability of 2 x 10 mm slice thickness - total coverage of upto 20 mm. In single scan/ rotation.
  - Tube anode heat capacity of 2.0 MHU.
  - Anode heat dissipation of 490 KHU/min or above.
  - Sub-millimeter scanning in dual slice mode
  - Simultaneously acquire slices of two different thicknesses (thick and thin) for lung imaging.
  - Automatic modulation of the X-ray dose (mA) from slice to slice.
  - Please quote the system with software's to perform following applications :-  
    - Colon, angio-renal, vascular, virtual 3D, multi-phase organ studies, front-line cancer/ trauma, biopsies, perfusion, neuro, cancer detection, virtual endoscopies, musk skeletal, tandenography, angiographies, transparency mode.
  - On main console advanced automated processing software - like volume rendering, MPR, MPVR, filming, archieve etc.
-

**Line item VIII**

## **Multi Slice CT SCANNER (4 / 6 Slices per Rotation)**

The Model offered should be High end model under current production, should be Slip Ring Technology. Refurbished, Gold Seal Units will not be accepted. The Offer should meet the Specifications as follows:

- 1) Gantry:
  1. The CT Scanner should have low Voltage Slip Rings incorporated in the Gantry.
  2. The Minimum scan time for a 360 Degree rotation should be less than or equal to 0.80 Seconds (Eight Hundred Milliseconds).
  3. The gantry should have a minimum tilt of 30 degrees on either side.
  4. The gantry should be provided with User control panels on either side for easy positioning.
  5. **The sub millimeter Slice of 0.75mm or less is required for Special Studies. The Detector should be able to cover at least 16mm/Rotation irrespective of the Slice width selected for Scan.**
  6. The Gantry should have 3D positioning Laser Lights.
  7. The Scan field of view (FOV) in acquisition mode should be at least from 200mm to 500mm with intermediate Steps for scanning different anatomies.
  8. Aperture should be at least 70 cm diameter.
- 2) X ray Section:
  1. The X ray Generator should be compact and inbuilt in the Gantry.
  2. The Effective X ray power (KV x mA) should be 35 KW and above.
  3. **The mA range available should be between 10 to 260 mA or more with increments in steps of not more than 10mA.**
  4. The X ray Tube should be essentially Dual Focus with capacity of at least 3.5 MHU. Liquid bearing X ray Tube is desirable. Any special feature of the X ray tube to be highlighted with literature.
  5. Specify the focal Spots of the X ray tube.

6. The X ray tube should have a cooling rate of not less **than 750 KHU per min.**
7. The X ray tube Cooler Unit should be in built in the Gantry.
- 3) Detectors:
  1. The Detector offered should be Solid State. Specify the Material.
  2. **The Effective Elements/Channels should be at least 670 per row. The total detector cells should be more than 12000.**
  3. **It should be possible to achieve 4 Slices/Rotation or more in all slice thickness with no restriction.**
  4. Specify the Fan Angle of the X rays and the geometry. The detectors should not require frequent calibration. Mention time interval between 2 calibrations.
- 5) Patient Couch:
  1. The patient table offered should have a minimum load bearing capacity of at least 200 Kg.
  2. The Minimum table top height should not be more than 35 cms from the floor level for easy transport of trauma patients.
  3. The Floating table top width should be atleast 42 cms for better comfort.
  4. The range of metal free scan should be atleast 165 cms.
  5. The vertical range should be at-least 55cms (max height- min height)
6. Specify the reproducing accuracy of the table.
- 5) Sprial/ Helical Section:
  1. **The system offered should have Spiral Capability of at least 100 seconds & above. Real Time Spiral @ 10 f/s should be standard.**
  2. The range of Spiral facility in Axial Direction should be more than 125cms.
  3. The Reconstruction Time in Spiral scan should not be more than 100 Milli

seconds.

4. The system should have real time contrast monitoring acquisition & ability to track contrast medium to trigger auto injector and initiate auto scan protocol should be included in the scope of supply.
5. **System should perform Tilt Spiral scan as standard at any of the chosen angles in Multi slice Mode.**
6. **Hi Res scan package of 0.63 mm or less should be offered as standard.**
- 6) Computer Section:
  1. The Computer offered should be the Latest 64 bit main CPU Multi tasking Processors and a menu driven platform with a RAM size of at least 2 GB. High speed CPU Pentium IV running at 2.0 GHZ or better.
  2. The Monitor should be the latest Color of at least 18 inches and flat screen. The display matrix should be at least 1024/1024.
  3. The reconstruction time for a Axial scan should not be more than 250 Milli seconds.
  4. The Hard disk Capacity for both Image and Raw data should be more than 120 GB.
  5. It should have facility to store at least 2,00,000 Image (512 matrix).
  6. The system should be PACS interface supported with archiving facility of DVD & CD Main Console.
  7. DICOM 3.0 compliant with facility to send, store, print, receive, etc. should be standard.
  8. PC Based connectivity should be standard for easy transfer of Images & Report.
- 7) Image Processing Section:
  1. The system should have standard software like 3D Volume rendering, MIP,CT Angio, Color Angio Display, Virtual Endoscopy, Bronchoscopy, Colonoscopy, CT Perfusion, Dental scan, Bone Mineral Study should be available as standard on the Main console.
  2. The following software should be offered as standard

(MPR, ROI, VOLUME CALCULATION, CT NUMBER DISPLAY, WINDOW WIDTH, WINDOW LEVEL, TOPOGRAM DISPLAY, CINE DISPLAY, HRCT LUNG, DYNAMIC SCAN).

3. Automatic display of MPR Images after scan will be preferred.

8) Resolution:

1. The System Spatial Resolution should be mentioned with parameters.
2. The low contrast resolution should not be more than 3 mm at 0.5% Shoulder, Pelvis Streak Artifact suppression Software should be standard.
3. Noise Suppression protocols to maintain LCR at low dose should be standard.
4. Special Softwares to ensure Dose efficiency should be standard.

9) Work Station:

1. High speed, additional fully independent workstation with DICOM compatibility with fastest reconstruction time and parallel processing capabilities along with CD Writer and filming.
2. Flat Screen Color monitor with networking capabilities.
3. Remote workstation should have achievable hard disc of 60 GB or more. It should have facility for recording movie files.
4. Laser color printer along with filming Software for the laser Camera.
5. CD archiving facility should be available with main console as well as satellite workstation. 1000 rewritable CD's should also be provided.

10)Software:

SOFTWARE ON THE MAIN CONSOLE:

1. Perfusion CT studies of various organs like liver, brain, cardiac,

kidney.

2. Dynamic scans.
3. CT Angiography with Contrast Trigger at peak opacification.
4. 2D and 3D volume rendered image with online depth display from the rendered image. Facility to see cross reference of axial slice data set on any selected area should be possible from the rendered image.
5. Fly through/Virtual Endoscopy with facility to see cross reference of axial slice data of selected area.
6. Quantitative evaluation of angio.
7. Multiframe display.
8. Topogram display.
9. Image reconstruction.
10. 3D/Color 3D/MIP/SSD/MPR (Sag, Cor, Oblique & Curved).
11. Calcium scoring software. Prospective ECG gating and retrospective tagging for spiral imaging.
12. Cine display of 30 images per second of higher preferred.
13. Volume Calculation.
14. Bone mineral density function (Calculation at more than One Site) should be available.
15. Multi tasking Computer.
16. Auto voice facility from console.

FURTHER UPGRADATION OF THE EXISTING SOFTWARE TO BE PROVIDED FREE OF COST.

All the above functions should also be available on satellite workstation. It should be capable of working from a location of at least 100 meters away.

12) Accessories:

1. Multi size Dry Laser Imager of any reputed make with digital interface.
2. Lead Glass of at least 2 ft by 4 ft.
3. Stabilizer for the Entire system and A/C of suitable capacity.
4. UPS with one hour back up of suitable capacity to handle CT Computer, Laser Imager, Work stations, Color Printer.
5. **Dual Phase Pressure Injector of reputed make with 100 Nos. Syringes & Tubings.**
6. Standard Patient positioning accessories (List to be included in technical bid).

13) Warranty / Miscellaneous:

1. Three Years of CT Scanner System including X ray tube and all accessories.
2. The offer should be accompanied by Original data sheet/brochure of the product.
3. The Cost of the CMC (Comprehensive maintenance Contract) inclusive of the X ray tube should be quoted from 4<sup>th</sup> to 10<sup>th</sup> year inclusive of labor, spares and X ray tube. The CMC should cover all vendor items and local accessories. This will be added to the Cost for evaluation of the Tender and to arrive at the Lowest Bid.
4. All compliance to the Tender should be in the form of Original Data sheet or Original Certificate from the manufacturer. Item under Work in Progress will not be considered.
5. It shall be responsibility of the Bidder to alter the site as per BARC norms towards the installation of the system. Turn key costs towards the installation should be mentioned separately. Turn key includes Site modifications, Wall tiles, Lead lined doors and walls of console room exposed to radiation. Lead glass, Air conditioners, Power DP box, PVC flooring, false ceiling, Lights etc

**Line Item IX:**

**MRI State of the art MAGNETIC SUPER CONDUCTING MAGNETIC RESONANCE IMAGING SYSTEM 1.5 or more TESLA**

Tender requirements for the purchase of **Premium 1.5 or more Tesla System.**

Competitive bids are invited for a Whole **Body 1.5 Tesla Magnetic Resonance Imaging system** optimized for higher performance in Cardiac and Neuro-radiological examinations with short super-conducting magnet, high performance gradients and digital Radio Frequency.

All capabilities as detailed below should be integral part of the quotation and none of these essential requirements should be quoted as optional. If a supplier has any additional advanced applications or technique available with them, the same may be quotes as options.

**1.1\_ Magnet System**

- 1.01 1.5 or more Tesla active shielded super conductive magnet.**
- 1.02 The magnet length should be short.
- 1.03 It should have at least 60 cm patient bore with flared opening. The magnet should have facilities of better illumination, ventilation and designed to avoid patient claustrophobia.
- 1.04 The magnet should be shielded from the external interferences. Give details.
- 1.05 The homogeneity of the magnet should be mentioned in relation to 10,20,30,40 cm DSV. Give details of the number of the planes plots and number of measurement per plane to measure the homogeneity.
- 1.06 Global and local auto shimming should be available. Automated patient specific on line shimming should be available. 2<sup>nd</sup> / High Order shimming should be quoted to correct patient induced homogeneity.
- 1.07 Specify the weight of the magnet including the gradient and covers etc.
- 1.08 The front panel display at the magnet should display coil table position and also remote selection of coil elements.

**2.0 Gradient System**

- 2.01 Actively shielded Gradient system with strength of at least 33 mT/m or more with the slew rate of 150mT/m/sec or more. This slew rate of 150 t

33mT should be available in each axis independent, for overall better duty cycle performance of the gradient.

- 2.02 The duty cycle should be 100 percent. Please give details.
- 2.03 The Gradient system should have provision for eddy current compensation.
- 2.04 The Gradient should be capable of delivering the following clinical performance.
- 2.05 Largest Field of View should be at least 45 cm in all three axis. Higher available FOV will be preferred.
- 2.06 Minimum TE in Gradient Echo 2D / 3D should be at least 0.7msec/1.6 msec or less at 256x256 matrix.
- 2.07 Minimum TR in gradient Echo 2D/3D should be at least 1.6 msec/1.6 msec or less at 256x256 matrix.
- 2.08 Minimum Slice thickness in 2D should be at least 0.5mm or less.
- 2.09 Minimum Slice thickness in 3D should be at least 0.1mm or less.
- 2.10 Maximum Echo Train Length in both Spin Echo and Gradient Echo should be at least 256 or more.
- 2.11 The measurement matrix should be from 128x128 to 1024x1024 in both 2D and 3D imaging as well.

### **3.0 RF System**

- 3.01 RF system should be fully digital with transmit power of at least 15Kw.
- 3.02 RF system should have at least minimum of 16 independent CP/Quadrature RF receiving channels with each having bandwidth of 1MHz or more.
- 3.03 Should have necessary hardware to support Phased array coils.
- 3.04 Specify frequency stability and amplifier resolution.
- 3.05 RF system should be compatible with parallel imaging techniques. It should be able to support time reductions with compatible coils in 2D/3D imaging in Body / Neuro imaging upto factor of 4. higher PAT factors will be preferred.

3.06 RF amplifier should be solid state for overall better performance.

#### **4.0 RF Coils**

- 4.01 The main body coil integrated to the magnet must be Quadrature/CP. In addition to this coil following coils should be quoted.
- 4.02 Phased Array Head coil with mirror. It should be at least 8 Elements or more. Higher element coil will be preferred.
- 4.03 Phased Array Neck Coil.
- 4.04 In case above two coils do not suffice in combination for complete Neuro-vascular study from Aortic arch to Circle of Wills, please quote separate coil in addition to above two coil for this study. Please specify the max parallel imaging time reduction.
- 4.05 Phased array Spine Coil for thoracic and Lumber spine imaging. Mention the number of coil elements available. Please specify the time reduction factor with parallel acquisition techniques.
- 4.06 Phased array Body coil, capable of doing abdomen, pelvic, MRCP and peripheral imaging. Please specify the time reduction factor with parallel acquisition techniques.
- 4.07 Flexible Coil-small for imaging of large regions such as shoulder, hip and knee etc.
- 4.08 Flexible Coil-small for imaging of small regions such as shoulders, wrist, elbow and ankle.
- 4.09 Small Flexible Coil.
- 4.10 Large Flexible Coil.
- 4.11 Quadrature extremity Coil for Knee Imaging.
- 4.12 Endorectal coil for higher resolution imaging of prostate, colon, rectum and cervix imaging.
- 4.13 Dedicated Shoulder Phased Array coil.
- 4.14 Coil for Cardiac Imaging with 4 channel or more imaging. Please specify the time reduction factor with parallel acquisition techniques.

- 4.15 Dedicated 8 channel Brain Coil for High resolution Brain Images. Please specify the time reduction factor with parallel acquisition techniques. It should be possible to do the spectroscopy Imaging with this Coil.
- 4.16 Please specify how many RF coils can be connected and how many elements can be activated from different coils combined together. Higher number of Elements connected for various applications will be preferred.
- 4.17 In conjunction with above please confirm if the facility to select coil elements from the main console exists.

## **5.0 Patient Handling System**

- 5.01 Please specify the table type whether it's conventional trolley type or incorporates new design principles.
- 5.02 The table should be fully motorized, computer controlled table movements in vertical and horizontal directions. The position accuracy should be at least +/- 1mm or better for higher reproducibility in advanced applications like ceMRA, pMRA with stepping table.
- 5.03 The longitudinal table movement should be at least 15 cm /sec or more for better ceMRA results.
- 5.04 The patient table should be able to withstand patient load of 180 Kg.
- 5.05 The table should have facility for emergency manual traction in case of emergency. The table should have patient auto alarm system.
- 5.06 The CCTV system with colored LCD display to observe the patient.
- 5.07 The table should deliver the protocols for automatic bolus chasing in peripheral angio with the automatic table movement.

## **6.0 Host Computer/Main Console and Image Processor**

- 6.01 Computer system should be latest in the industry, fast and efficient. It should have at least 2 GB RAM.
- 6.02 the system should have image storage capacity of 50 GB for at least 95000 images in 256x256 matrix.
- 6.03 The reconstruction speed should be at least 300 images per sec or more for full FOV 256 matrix and the image processor should have high RAM capacity of at least 3 GB for faster processing for advanced applications.

- 6.04 The main Host computer should have at least 18inch LCD type Color monitor. The main console should have facility for music system for the patient in the magnet room.
- 6.05 The system should have integrated CD or MOD archiving facility on the main console for storage of 10,000 images or more in 256 matrix. Additionally 500 high storage CD's or 50 optical discs to be provided.
- 6.06 One additional workstation with Color monitor to be provided for the applications as listed under item 8.

## **7.0 Application Software/Hardware**

- 7.01 The system should have basic sequences package with Spin echo, Inversion Recovery, Turbo Spin Echo with high turbo factor of 256 or more, Gradient Echo with echo train Length of 256 or more.
- 7.02 The application software for image smoothing and edge sharpness etc. for improvement in image resolution should be quoted and it should apply for major imaging applications.
- 7.03 Single and Multi shot EPI imaging techniques with ETL factor of 256 or more.
- 7.04 MR Angio Imaging: Should have 2D/3D TOF, 2D/3D PC, MTS and TONE, ceMRA to be quoted. MR Spectroscopy.
- 7.05 Fat and water excitation, please specify the application package.
- 7.06 Diffusion Weighted Imaging, with at least b value of 8000 or more. The system should have facility for ON Line automated calculation of ADC maps.
- 7.07 Please specify the motion correction algorithm/package for high-resolution motion free Diffusion weighed imaging with multishot/segmented EPI techniques. It should be also possible to have PSIF diffusion.
- 7.08 Perfusion Imaging to enable large anatomy coverage of the brain and in line calculation of resulting hemodynamic data. The perfusion analysis should have capability to calculate color display of reIMTT, rel CBV, relCBF. If the perfusion analysis is not possible on the main console the same should be quoted on the workstation.
- 7.09 BOLD imaging: BOLD technique with automated 3 dimensional motion correction, z-score, correlation analysis with color overlay on anatomical

images. It should be possible to have Real Time Processing of BOLD imaging data on the main console for the complete reconstruction.

- 7.10 The perfusion and the BOLD imaging should be possible for the whole brain with motion correction techniques. Please specify the application package and the motion correction technique.
- 7.11 parallel Acquisition Techniques: Please specify the name of the package. It should have applications in abdomen, CTL imaging, neuro-imaging including diffusion and perfusion etc., free breathing abdomen imaging and Cardiac imaging. The scan reduction time should be mentioned.
- 7.12 Bolus chasing with automatic moving table should be offered and should be available with fluoro triggered MR angiography for manual and fast switchover in less than 1 sec for ceMRA results.
- 7.13 The system should facility for quantification of the CSE flow data. The same should be preferably on the main console. In case of this application not available on the main console, please provide it on the additional workstation as detailed in item 8.08.
- 7.14 The system should have the Hydrogen, Single Voxel spectroscopy, Multivoxel, multislice 2D, 3D Spectroscopy and also the Chemical shift imaging in 2d/3d. The complete processing/post-processing software including color metabolite maps should be available on.
- 7.15 Advanced Cardiac Applications: Morphology/wall motion; perfusion imaging; Myocardial viability imaging; Cardiac function including EF, ED/ES volume Cardiac output, wall thickening and wall thickness; Cardiac Tagging Techniques; Coronary artery techniques; rea
- 7.16 The system should have prospective ECG triggering and retrospective gating with navigator pulses, interactive or automatic definition of the ventricular and myocardial contours, cine imaging, grid tagging etc. Besides this comprehensive set of all post p.
- 7.17 The system should be supplied with ECG Trigger; respiratory trigger, peripheral pulse trigger and external trigger. For cardiac applications if special triggering mechanism available the same should be quoted with 1200 electrodes.
- 7.18 It should be possible to have the prostate spectroscopy in conjunction with the endorectal coils to be quotes as item 4.13. Please include any other interface, or hardware and software required for this application.

- 7.19 The system should be available to perform Multi Direction Diffusion weighted imaging/ Diffusion Tensor Imaging and the same should be possible on the main console.

## **8.0 Additional Evaluation Console/Workstation**

- 8.01 The additional workstation with preferably the same user interface as of the main console with the availability of MPR, MIP etc. It should have 18 inch LCD monitor, with hard disk of at least 50 GB for at least 95000 image storage in 256 matrix, and 2 GB RAM.
- 8.02 Image documentation should be possible from the main as well as the workstation.
- 8.03 The workstation should have availability of Cardiac post processing capabilities:1, calculation of ventricular area/volume, stroke volume, ejection fraction, relative ejection fraction, calculation of myocardial thickness, Time volume diagram generation.
- 8.04 The workstation should have availability of Cardiac post processing capabilities:1, calculation of ventricular area / volume, stroke volume, ejection fraction, relative ejection fraction, calculation of myocardial thickness, Time volume diagram generation.
- 8.05 The perfusion analysis should have capability to calculate color display of relMTT, reCBV, reCBF, if the same not possible on main console as mentioned in point 7.08, then software to have the same should be quoted.
- 8.06 Processing of 2D/3D CSI data with color metabolite mapping, if not offered /available on the main console as mentioned in point 7.14 should be quoted here.
- 8.07 Processing of Real Time BOLD imaging data sets for color overlay of functional and anatomic data, if not available on the main console should be quoted here. It should be possible to have Real Time BOLD image processing for the complete brain. If any add
- 8.08 The system should facility for quantification of the CSF flow data on the main console, if not offered/available on the main console as mentioned in point 7.13 should be quoted here.
- 8.09 The post processing workstation should have software package for analysis of the vessel disease with the possibility of detection of vessel segments and to quantify the changes in vessel size.
- 8.10 Volume Rendering Techniques software for visualization of complex anatomy.

8.11 The system also should have facility for navigator/flythrough capability.

## **9.0 Standard Accessories and other requirements**

9.01 The system should have digital DICOM 3.0 dry Chemistry Laser Camera.

9.02 The system should have MR compatible pressure injector from well established supplier and the control for the same should be in console room.( Recommended; Dual Head Optistar MR, Mallinkrodt).

9.03 The system should be provided with the suitable UPS system for the complete system with at least 30 minute back up.

9.04 The system should be offered with the suitable Imported Chiller system.

9.05 RF Cabin: The system should be supplied with the imported RF cabin and interiors for the same should be carried out suitably.

9.06 Paradigm Generator for Audio Visual Stimulation: This should be of reputed make.

9.07 The system to have MR compatible Servo Ventilator with anaesthesia attachment from the reputed make with MR compatible O2/N20 cylinders (2 each).

9.08 MR compatible Pulse Oximeter to be supplied + MR Compatible defibrillator.

9.09 The system should have color dry printer for printing color images and protocols on plane paper in 1200x1200 dpi resolution.

9.10 The system to be supplied with Patient Comfort kit.

9.11 The system should have HIS/RIS integration software.

9.12 The system should be guaranteed for 5 Years. Helium and cold head to be provided for 10 years.

10.0 Uptime 95% must be guaranteed.

11.0 Turn key project as per Institutional rule, and to be quoted after site inspection and required necessary instructions at site.

12.0 Training for user: must include training of user Radiologists for training abroad for new technology at the cost of the supplier.

13.0 **Comprehensive CMC: for 10 years**

Includes all parts and unlimited no of breakdown calls.  
Must include all other accessories are required for MR operation in institution.  
Include LCD Projector and Laptop computer for MR related academic activities.  
PC with Laser Printer for Report Generation.

- 14.0 If there is a major technological change, the latest new technological version must be supplied. And at time of actual installation must supply the latest model including upgrade ( new release version which may not have been released in the market at the time of making tender specification at no extra cost to the instituion as this is a very rapidly upgrading field.

### **SPECIFICATIONS FOR DRY LASER PRINTER (NON-COLOR)**

(To be included in MRI)

- Dry Laser technology.
- Resolution; 600 dpi or more.
- Must support multiple film sizes; (5), one of which must be 17x14"
- Must have 3 or more film drawers.
- 5 or more film sorter.
- Must have 3 or more online film sizes.
- Must be able to handle multiple imaging modalities.
- Must be fast with High Throughput:
- 180 or more films per hour.
- Must be possible for edge to edge printing for maximizing print area.
- Dicom compatible.
- 12 or more pixel architecture.
- Must have maximal grey scale.

### **Dry Color Printer for MRI and CT Scan;**

Color Medical Imager (Printer) for printing Color Doppler Images in films,  
Paper (A4, A sizes).

Technology; Dye Diffusion and Direct Thermal technoogy.  
Must be dry technology.  
Must be Dicom compatible.  
Post-Script and Video Interface advantage.  
Must be fast.  
Must be able to print for all digital imaging modalities.  
Must be able to print different films sizes.  
Print in A, A And 17x14", 10 x 8 etc.,  
Compatible with DICOM and Window network printing.

Throughout; Must be fast, at-least 100/per hours.  
Spatial Resolution; at-least 300 dpi.  
Inbuilt hard disk of 10 GB or more.  
Memory; 256 MB RAM or more.

**Line item X : Equipments for Physiotherapy**

## **EQUIPMENTS FOR PHYSIOTHERAPY**

### **Computerized IFT (Digital)**

- User friendly can be easily operated
- Totally feature touch
- Digital 7 seg. Display for actual current indication for both the individual channels.
- Direct beat frequency control & digital display easily available
- Total computerized unit
- Simplified servicing mechanism card system
- Scan mode (continues & others)
- Light weight easily portable
- Safe start feature
- Upgradeable

### **Short Wave Diathermy SWD-250 Watts**

- Deep tissue electrical field therapy. Therapy by pad electrode.
- Operating voltage - 220 volt 50 Hz.
- The output power is adjustable in five steps.
- 30 min. treatment timer.

- The operating frequency 27.12 MHz.
- Maximum output power 250 watts.
- Cooling fan to cool the chassis and the valve, ensuring prolonged tube life.
- Switched off Rf power at the end of the treatment.

### **Digital Ultrasonic Unit**

- Solid-state digital high frequency generation.
- thermal & non-thermal mode of production.
- 4-duty cycle pulsed output.
- Ergonomic applicator.
- Display digital timer.
- Frequency - 1 MHz.
- Mode of operation - continuous/ pulsed
- Pulse frequency ration - 100 Hz. / 1:1, 1:4, 1:8, 1:10
- Power density - 3.0 watts / cum.sq. maximum
- Total power output - 15 watts.
- Treatment time - digital 0.99 mins. (Set/ start)
- Power supply - 200 to 220 volts A.C. 50 Hz.

### **Muscle Stimulator** (Diagnostic cum Therapeutic)

- Electro muscle stimulator I.C./ transistor based therapeutic unit with galvanic, interrupted galvanic, & faradic independent for pulse rate and pulse width & selector mode and indicator lamps and variable output.
- Operating voltage : 220 V, AC 50 Hz.
- Pulse width - 30, 100, 300 micro/ sec. (Rotary)
- Frequency - 0.3, 1, 5 pulse/ sec. (Rotary)

- Selector switch - galvanic/ interrupted galvanic/ faradic (rotary)
- Surge faradic - On/ Off switch with duration time for surge faradic
- Intensity - variable
- Meter - for output meter

### **Cervical Cum Lumber Traction Unit**

- Intermittent cervical cum lumber traction machine. Solid-state digital circuitry with state of art technology. Completely user programmable and easy to operate. Can be mounted on wall-cervical purpose or on table for lumber as well as cervical in supine position.
- On/ Off switch - On front panel
- Timer - 0-99 min. set/ start A.V. display
- Traction force - 5 Kg to 45 Kg. rotary
- Hold time - 20, 40, 60, 80 sec. Rotary
- Rest time - 1, 5, 10, 20 sec. Rotary
- Therapy mode - Static/ intermittent
- Patient switch - Remote control provided for patient safety.
- Operating voltage - 220 V / 50 Hz. + 10%
- Machine weight - 10 Kg. (approx.)
- Power consumption - 25 watts.

### **T.E.N.S. (Pulse width & pulse frequency adjustable)**

- Transcutaneous electro nerve stimulator tale mode unit pulse generated, used externally for the relief of localised pain.
- Operation voltage - 230 V/ 50 Hz. + 10%
- Timer - 0-99 min./ digital (set/start A.V. display)
- Pulse width - Digital soft touch/ frequency - digital soft touch

- Intensity - Variable
- Output - Four channel

### **Hydroculator 8 Pack (Large Size)**

### **Hydroculator 4 Pack (Small Size)**

- Operating Voltage - 220 V/ 50 Hz.
- Power consumption - 2 Kilo watt
- Main On/Off switch
- Thermostat for temperature control
- Inner and outer made of SS
- Main indicator for load power
- Hot Pac : One set (set of four)
- Forceps - One

### **Paraffin Wax Bath (Large & Small Size)**

- Internal wax tank made out of stainless steel sheet. The top has a MS cover and the edges of the bath has a laminated wooden rim, works on electricity 200-240 V. Provided with special wax immersion type heater and thermostat to control temperature. Externally finished oven baked. Wax chamber size 50 x 35 x 25 cm comes with six Kg. wax.

### **Quadriceps Table with Back Rest**

- Total metal tubular construction with oven baked powder coated finish. The table to consists of a foam (2") padded top covered with high quality rexin with a backrest with can be aligned at different angles (0-91 deg.). the armrest support also height adjustable. The bench should enables exercises in seating position - e.g. knee stretching, as well as exercises reclining position - e.g. knee flexion and hip stretching. The arm rests suitable for press-up exercise.

### **Ankle Exerciser**

- To be used for dorsi and planter flexion exercises. Cast aluminium boot which is powder coated and is fitted on a bracket with two horizontal springs fitted on the laminated wooden board.

### **Heel Exerciser**

- A specifically designed unit for exercising the heel and tarsus muscle groups.

### **Examination Couch**

- Foam padded

### **Grip Exerciser Without Base**

- A bright chrome plated rectangular frame encompassing six chrome plated springs for finger grip strengthening; the springs to be detachable thus making progressive resisted exercise possible.
- A : with base : provided with an extra base for gripper so that it can be kept on the table / platform for those patients whose hands are very weak or infirm.
- B : Without Base.

### **I.R. Lamp Table Model**

- Combined IR/UV treatment (2 in 1) fitted in stainless steel domes
- Height, angle, direction adjustable due to special telescope stand
- Floor model mounted on heavy duty castors for easy movement with neon indicator mains ON/OFF switch and 15 min. timer in floor model.
- Selector switch to select either infra-red or ultraviolet treatment

### **Complex Exerciser Therapy Unit**

- Complete exercising unit with following attachment for administration of accurately controlled progressive resistive and also passive and stretching exercises to all major muscle of those of the fingers and toes. Attachments for neck, knee and hop flexion and extension, trunk flexion, ankle planter and dorsiflexion, eversion and inversion, internal and external rotation, adduction or

abducting of the hips, shoulder exercise & hyper extension, exercises of the back. Approx. size is 195 cm long 80 cm wide and the table is 85 cm high. The foam padded table is mounted on a tubular frame.

### **ARM Chest Exerciser (Wall Mounting)**

- All chrome plated steel tubular construction, mounted on wooden platform and fitted with wall bracket at the top for all mounting. Comes with adjustable swivel pulley block, a set of locking weights and two handles with nylon rope, suitable for all shoulder and elbow exercises.

### **Heavy Duty Static Cycle**

- Ruggedly built tubular steel frame stands solidly on four rubber tipped properly balanced legs. Provided with adjustable seat and specially designed adjustable handle. Fitted with one hard rubber tyred wheel, standard chain and socket for bicycle drive. Comes with a ball bearing fitted resistance roller which permits controlled variations in ridding efforts.
-

**Line item XI: EQUIPMENTS FOR EYE CENTRE**

## **Ophthalmology - Ophthalmic OPD Unit**

- Ophthalmic unit (chair unit)
- Motorised drum
- Doctors stool
- Trial Set
- Slit lamp
- Keratometer
- Lensometer
- Ascan sonomed (for lens power)
- Bscan sonomed
- Operating microscope
- Tonometers

**Line item XII :EQUIPMENTS FOR ENT CENTRE**

## **ENT Instruments Set**

- Rust free top with powder coating housing on lockable heavy duty castors.
  - Transparent acrylic cover cabinet with OPD instruments Concealed powerful suction unit with foot control switch
  - Electronic temperature controlled water jet system with 0.1 deg. setting range upto 100 deg. cent
  - Universally adjustable Bull's Eye Lamp Foot operated, powerful spray system with micro-switching
  - Solid state, fine cautery with different electrodes, with cutting & coagulating system
  - Convenient heat laryngeal mirror warmer system
  - X-Ray viewing box with CFL lights
  - Space for instrument trays
  - Medicine bottles and gauze box stand
  - Storage drawers with locking facility
  - Space for cold light source
  - Stand for nasal Endoscope and Operating microscope (optional)
  - Approximate dimensions H x W x L - 150 x 60 x 70 cm
  - Optional accessories like operating microscope, Fibre optic
  - Headlight can be attached
- 

## **Pure Tone Audiometer**

- The audiometer should be designed to offer the basic needs, such as Pure- tone speech, noise - narrow band & wide band + 10 & 20 dB facility with 5 dB steps.

- External & built in mike with mike sensitivity control facility for speech audiometry with under mentioned specifications :
  - Tone, Speech , Tape.
  - Left, Right, Bone.
  - Air-120 dB Max., 125 Hz to 8 KHz, -20 dB Min.
  - Bone - 80 dB Max., 250 Hz to 6 KHz , -20 dB Min.
  - Noise : Wide Band, Narrow Band
  - -10 dB, + 20 dB, Built -in Mike, Ext. Mike, Mike sensitivity Control.
- 

### **Brain Stem Evoked Audiometry (BERA)**

- Microprocessor controlled with electrodes impedance.
  - Galvanic separated electrodes
  - Intensity : 0-110 dB HL.
  - Masking : 0 - 80 dB white noise.
  - 1 Channel (psi / kontara)
  - Analysis Time : 10 ms
  - Curve diagram ( 8 right and 8 left), latency - diagram, direct comparision right/left
  - Dimensions : 29cm x 25 cm x 7.5 cm (WxDxH).
  - Weight : 1.8 Kg
  - Power Consumption : 15 W
  - Should be provided with compatable PC (Pantium IV)
-

**Line item XIII : EQUIPMENTS FOR NEUROLOGY**

## Digital EEG System

- 21 channels EEG system, with capability of recording EOG, EMG, EKG and respiratory effort.
- Provision for marking events along with EEG recordings using keyboard/ mouse.
- Selection control for easy setup of different available physiological parameters simultaneously with EEG.
- Complete programmable control of montage selection, acquisition, sensitivity filter settings. Photic stimulator sequence etc.
- Photic stimulator with programmable sequence with max stim frequency 60 Hz. with/ without activation.
- A high resolution 17<sup>th</sup> colour monitor for display of wave form with resolution 128 x 1024 pixels.
- Provision for hard copy of recordings on a laser printer of 600 dpi resolution.
- Built in electrode for impedance check.
- The equipment should have acquisition sensitivity adjustable between  $\mu\text{V}/\text{mm}$  and  $150\text{m V}/\text{mm}$ .
- The system should have sq. wave calibration pulses with adjustable voltages.
- Bandwidth from  $0.05 \text{ V}/\text{mm}$ .
- Provision for notch filter and muscle artifact reject filter.
- Amplifier channels should have on join pur independence  $> 20 \text{ mohms}$  & CMRR  $> 100 \text{ db}$  & sampling with 16 bit ADC.
- PC currently latest minimum Pentium IV.
- Provision for write able CD drive for archiving purposes.
- Facility for reviewing data recorded on CD ROM on a PC without any additional software.
- Full optical isolation, antui-cautery devices conformation to international studies with certification authorities.

- Facilities for report generation using word processor.
- 

## **Electromyograph Equipment**

- Technical Specifications :
  - Number of channels : At least four channels.
  - Sensitivity : 1 Microvolt per division to 10 millivolts per division.
  - Input impedance : Above 100 mohms
  - Common mode rejection ratio : Above 100 decibles
  - Low filter settings : 0.2 to 5 k Hz.
  - High filter setting : 30k - 20 Hz.
  - Noise < 0.7 microvolt RMS
  - Built in calibration : 2-1000 microvolts.
  - Adjustable notch filter.
- Computer Specifications :
  - The equipment should be computer based. The minimum specifications are as follows :
  - Pentium IV.
  - Hard disk 20 GB minimum
  - Built in CD ROM drive 32x with multimedia facility.
  - 128 MB RAM
  - Colour monitor 17" with high resolution
  - Standard PC keyboard, mouse.
  - CD rewritable drive compatible with the system.
  - Windows report generator and access database.
  - Easy mobility of the equipment mounted on trolley.
  - Integrated data management system with automatic report generation.
  - Supplies should provide the latest available higher capacity facilities at the time of delivery without any additional expenditure.

· Functional Specifications :

- The equipment should have built in facilities for processing and analyzing data for following tests :

Nerve conducting studies

- Motor nerve conduction
- Sensory nerve conduction
- F. Wave
- H. Reflex
- Blink reflex
- Repetitive stimulation (decrement study with automatic computation of area & amp. Derements).

Evoked Potentials

- Brainstem auditor evoked potentials
- Visual evoked potentials (flash, pattern, LED goggles).
- Somatosensory evoked potentials.
- Cognitive event related potentials (P300) - audio, visual paradigms.

Needle EMG

- Free run needle EMG
- Triggered needle EMG
- MUAP analysis
- Interference pattern
- Display of continuous EMG for sampling and review
- Instant reply EMG waves and reanalysis facility

· Accessories

- All standard accessories should be supplied with the equipment.
- Hand operated as well as foot switch should be provided for operating the equipment.
- Temperature probe
- USP should be supplied
- 17" colour monitor for VEP, with checker board, horizontal and vertical bars.
- Auditory headphones with click, pips and tones,
- Laser printer.

· Guarantee/ Warranty

- As per rules

**Line item XIV :EQUIPMENTS FOR DENTAL CENTRE**

### **Dental X-Ray Machine**

- 15 mA -65 KVP X-Ray Unit, fully wave rectified for less radiation dose to Patient.
  - To operate on 220-230 Volt AC-50 Hz
  - Local spot should be 1mm Square.
  - Parallel cone size 22 cm Length and 6 Cm depth.
  - To be microprocessor controlled with digital display of time selected and input voltage.
  - Floor model with Scissor Arm.
  - Should be AERB Approved. Manufacturer shall be ISO certified.
  - To be supplied with compatible servo- controlled voltage stabilizer
  - To be supplied with day light developing system
- 

### **Dental Equipments Set**

- Electrically operated multi programmable chair fitted with multi-functional foot control aid
- Operating light with two intensity
- Auto water connection for spittoon & tumbler
- High & Low vacuum motorized suction with flow control valve
- Auto drain & auto flush system
- Two airtor points with one fibre optic twin beam ultrapush QD twist free coupling having non retraction valve airtor hand piece. One mini clean head hand piece.

- Transparent water booster
- Brushless micromotor with one contrangle hand piece & one straight hand piece
- Two 3 way syringes
- Ultrasonic scaler (OEM) unit with tree scaling tips, one ENOD chuck, 30 ENDO files & two periodontal tips
- Light cure unit with variable intensity
- Stainless steel instrument tray
- X-ray viewer
- Oil free medical grade monobloc. 0.75 HP
- Airotor air compressor with imported head
- Unit mount dental X-ray 70 KV (tube head, imported)
- Autoclave fully programmable digital type
- Dental operator's stool with backrest movement and hand rest

**The above set shall include all basic requirements of dental lab & reagents**

---

**Line item XV :**

### **30° Angled Arthroscope and Cable Set**

- Arthroscope (30° 4mm, autoclavable, scratch resistant scope, field of view 105° sapphire tip 5.8mm speed local cannula)
- Bulb (medical halide bulb for quantum 5000 light sources)
- Cable (fibre optic cable, 6.5mm x 10ft.)
- Trocar tube (2 stopcock, rotatable for 4mm)
- Trocar spike (triangular for 4mm)

### **Arthroscopic Camera and Cable System**

- 6<sup>th</sup> generation 3-chip camera
- Light sensitivity of <1 lux
- Restoration of >900 lines, 70 decibels signal to noise ratio
- Digital zoom control on the camera head. In-built image enhancer
- Camera should be digitally tuned specifically for different specialities
- Light in weight camera head
- Compatible TV monitor
- Camera head with focusing coupler with 10ft. Cable
- Camera console (220 volt)
- Light source
- 14" video monitor with VCR/ recording system
- Pneumatic shaver system (includes the shaver tips)
- Arthroscopic instruments for menisectomy, biopsy and ACL reconstruction
- Leg holder/ ankle holder
- Chinese finger trap traction set

- Beach chair position for shoulder arthroscopy
- Arthroscopy fluid pump

### **Arthroscopic Manual Instruments**

- 3.4mm diameter x 130mm long
    - Standard Scissor - Straight - 30<sup>0</sup> Left
    - Micro scissors - Straight - 30<sup>0</sup> Left, 30<sup>0</sup> Right, 45<sup>0</sup> Left, 45<sup>0</sup> Right
    - Retrograde forceps - Straight Left & Straight Right
    - Aggressor forceps Straight 15<sup>0</sup> up 15<sup>0</sup> Left, 15<sup>0</sup> Right
    - 90<sup>0</sup> forceps - blunt tip - left & right, stoop tip left & right
    - 45<sup>0</sup> forceps - blunt tip - left & right, stoop tip left & right
  - 2.75mm diameter x 130mm long
    - Standard scissors - Straight
    - Micro scissors 15<sup>0</sup> up, 30<sup>0</sup> Left, 30<sup>0</sup> Right
    - Low profile forceps - Radiused tip straight & 15<sup>0</sup> up
    - Mini tip forceps - straight 30<sup>0</sup> left, 30<sup>0</sup> right, 15<sup>0</sup> up
  - Suture retrieval forceps - Straight
  - Alligator grasper, straight with ratchet
  - Teaser knot tier
  - Probes - 3.5mm straight, 4.0mm straight
  - Sterilization tray and forceps stand (for 15-20 instruments)
-

**Line item XVI :**

### **Microscope Binocular (IS : 4381 : 8275)**

- Body : A rigid stand interchangeable head inclined binocular body, rotatable through 360 Deg.
  - Eyepiece : Highest quality paired 10x, 15x wide field, antifungal treated.
  - Objective : Achromatic objectives 4X (NA 0.10), 10X (NA 0.25), 40X (NA 0.65), 100X (NA 1.30); antifungal treated. Oil immersion of finest quality confirming to relevant international standard (corresponding to ISO 9001 certificate).
  - Nose Piece : Quadruple revolving nosepiece with positive click stop.
  - Stage : Horizontal mechanical stage 100 x 140 mm approx.
  - Illuminator : High Power, interchangeable illuminator with transformer, plane/ concave reflection mirror for day light use in addition to bulb 6V/5A - 30V/20W (Halogen Bulb).
  - Focusing knobs condenser filter holder : NA - 1.25
  - Magnification : 40X to 1000X
  - Inclination to tube : To be specified by the bidder.
-

**SECTION – V**

**List of Bidding and Contract Forms**

**PERFORMANCE SECURITY FORM**

To: \_\_\_\_\_ (Name of Purchaser)

**WHEREAS** ..... (Name of Supplier)  
hereinafter called "the Supplier" has undertaken , in pursuance of Contract No.....  
dated,..... 20.... to supply.....(Description of Goods and  
Services) hereinafter called "the Contract".

**AND WHEREAS** it has been stipulated by you in the said Contract that the Supplier shall furnish  
you with a Bank Guarantee by a recognized bank for the sum specified therein as security for  
compliance with the Supplier's performance obligations in accordance with the Contract.

**AND WHEREAS** we have agreed to give the Supplier a Guarantee:  
**THEREFORE WE** hereby affirm that we are Guarantors and responsible to you, on behalf of the  
Supplier, up to a total of ..... (Amount of the Guarantee  
in Words and Figures) and we undertake to pay you, upon your first written demand declaring the  
Supplier to be in default under the Contract and without cavil or argument, any sum or sums within  
the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove  
or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the. ....day of.....20...

Signature and Seal of Guarantors

.....  
.....  
.....

Date.....20....

Address:.....  
.....  
.....

**BID FORM**

To: (Name and address of purchaser)  
IFB Ref.:.....  
Line item Ref.:

Having examined the Bidding Documents including Addenda Nos.\_\_\_\_\_ the receipt of which is duly acknowledged, we, the undersigned, offer to supply and deliver.....  
(Description of Goods and Services) in conformity with said bidding documents.

We, undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified.

If our bid is accepted, we will submit performance security in a sum of equivalent to 5% of the Contract Price for the due performance of the contract.

We agree in consideration of Rs.100/- if demanded to abide by this bid for a period of 120 (one hundred twenty) days after the date fixed for bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid together with your written acceptance thereof shall constitute a binding contract between us.

We enclose our Annual Maintenance Contract for Five years, which forms part of our bid. \*

We confirm that stipulated bid security is enclosed herewith as a part of bid.

We understand that you are not bound to accept the lowest or any bid you may receive.

We accept all your terms and conditions stipulated in this tender document without deviations, both technical & techno - commercial.

Dated this..... Day of..... 20.....

\* Applicable for Equipments only.

---

(Signature) (In the capacity of)

Duly authorised to sign Bid for and on behalf of

\_\_\_\_\_  
Signed

**PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD**

**(For Group C Bids)**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>			
Schedule No.	Item Description	Country of Origin	Quantity and Unit	FOB Port of Loading	CIP New Delhi Airport	Inland Transportation, Insurance & Other Local Costs Incidental to Delivery	Incidental Services Listed in SCC Clause 8 Except For Annual Maintenance Charges Which Should Be Quoted Separately	Unit Price	Total Price	Agent's Name	Agent's Commission as a % of FOB Price Included in the Quoted Price	Shipment Weight and Volume
				[a]	[b]	[c]	[d]	[b]+[c]+[d]	4 x 6		-	

**Note:**

- (a) *In case of discrepancy between unit price and total price, the unit price shall prevail.*
- (b) *Agent's commission shall be paid in local currency only. No change due to exchange variation shall be allowed. Market exchange rate ruling on the date of award in accordance with Clause 12.2 of Instructions to Bidders will be applicable for this purpose*
- (c) *Charges for annual maintenance for 3 years after warranty should be quoted separately in the annexed price schedule.*

**Total Bid Price**

Currency : \_\_\_\_\_

In Figures : \_\_\_\_\_

In Words : \_\_\_\_\_

Signature of Bidder : \_\_\_\_\_

Name : \_\_\_\_\_

Business Address : \_\_\_\_\_

Place : \_\_\_\_\_

Date : \_\_\_\_\_

**PRICE SCHEDULE FOR COMPREHENSIVE MAINTENANCE AND REPAIR  
CHARGES AFTER WARRANTY PERIOD**

A	B	C	D	E (Total)
Line Item No.	Item Description	Quantity in Numbers	Annual Maintenance & Repair charges for each unit	Maintenance and repair charges for 3 years* (C x D)
1				
	Year 3			
	Year 4			
	Year 5			
	Total			
2	MRI 1.5 Tesla			
	Year 3			
	Year 4			
	Year 5			
	Year 6			
	Year 7			
	Total			
	<b>GRAND TOTAL</b>			

**Note:** i) This should be given item-wise, year-wise with total in Column E.

ii) In case of discrepancy between unit price and total price, the unit price shall prevail.

**Signature of Bidder:**

\_\_\_\_\_

**Name**

\_\_\_\_\_

**Business address**

\_\_\_\_\_

**Place:**

**Date:**

\_\_\_\_\_

\* including supply of spares

### Consignee's Acceptance Certificate

(To be given by consignee's authorized representative)

The following stores have been received in good condition & Satisfactorily Installed:

1. Name of item supplied :
2. Product No. :
3. Name of Supplier/ Manufacturer :
4. Qty. supplied :
5. Place of destination :
6. Name and address of Consignee along with Telephone No. & Fax No. :
7. Date of Receipt by Consignee :
8. Date of Satisfactory Installation. :
9. Signature of Authorized Representative of Consignee with date :
10. Seal of consignee :

**NOTE:** The CONSIGNEE RECEIPT CERTIFICATE (CRC) must be duly signed & stamped by the Authorized Representative of the Consignee clearly indicating the quantity received & the date of receipt. The CRC not signed by the Authorized personnel of the consignee will not be considered for the payment. CRC's signed 'for' or 'on behalf' of Authorized personnel of the consignee must accompany with the authorization letter from consignee.

**BID SECURITY FORM**

Whereas .....<sup>1</sup> (*hereinafter called "the Bidder"*) has submitted its bid dated ..... (*date of submission of bid*) for the supply of ..... (*name and/or description of the goods*) (*hereinafter called "the Bid"*).

KNOW ALL PEOPLE by these presents that WE ..... (*name of bank*) of ..... (*name of country*), having our registered office at ..... (*address of bank*) (*hereinafter called "the Bank"*), are bound unto ..... (*name of Purchaser*) (*hereinafter called "the Purchaser"*) in the sum of \_\_\_\_\_ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this \_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

THE CONDITIONS of this obligation are:

1. If the Bidder
  - (a) withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
  - (b) does not accept the correction of errors in accordance with ITB; or
  
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
  - (a) fails or refuses to execute the Contract Form if required; or
  - (b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders;

we undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including forty five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

.....  
(Signature of the Bank)

---

<sup>1</sup> *Name of Bidder*

**PROFORMA FOR PERFORMANCE STATEMENT**  
**(For a period of last five years)**

Bid No. \_\_\_\_\_ Date of opening \_\_\_\_\_ Time \_\_\_\_\_ Hours

Name of the Firm \_\_\_\_\_

Order Placed by (Full address of Purchaser)	Order No. and Date	Description and quantity of ordered equipment	Value of Order	Date of completion of delivery		Remarks indicating reasons for late delivery, if any	Has the equipment been supplied satisfactorily (Attach a certificate from the Purchaser/Consignee)?
				As per Contract	Actual		
1	2	3	4	5	6	7	8

Signature and seal of the Bidder

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# MANUFACTURERS ' AUTHORIZATION FORM

No. \_\_\_\_\_ dated

To

Dear Sir:

**IFB No.** \_\_\_\_\_

We \_\_\_\_\_ who are established and reputable manufacturers of \_\_\_\_\_ (*name and description of goods offered*) having factories at \_\_\_\_\_ (*address of factory*) do hereby authorize M/s (*Name and address of Agent*) to submit a bid, and sign the contract with you for the goods manufactured by us against the above IFB.

No company or firm or individual other than M/s. \_\_\_\_\_ are authorized to bid, and conclude the contract in regard to this business against this specific IFB.

We hereby extend our full guarantee and warranty as per Clause 26 of the General Conditions of Contract for the goods and services offered for supply by the above firm against this IFB.

Yours faithfully,

(Name)

(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the Bidder in its bid.

**CONTRACT FORM**

**THIS AGREEMENT** made the .....day of....., 2000 Between ..... (*Name of purchaser*) of ..... (*Country of Purchaser*) (hereinafter "the Purchaser") of the one part and ..... (*Name of Supplier*) of ..... (*City and Country of Supplier*) (hereinafter called "the Supplier") of the other part :

**WHEREAS** the Purchaser is desirous that certain Goods and ancillary services viz., ..... (*Brief Description of Goods and Services*) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of ..... (*Contract Price in Words and Figures*) (hereinafter called "the Contract Price").

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this agreement, viz.:
  - (a) the Bid Form and the Price Schedule submitted by the Bidder;
  - (b) the Schedule of Requirements;
  - (c) the Technical Specifications;
  - (d) the General Conditions of Contract;
  - (e) the Special Conditions of Contract; and
  - (f) the Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services which shall be supplied/provided by the Supplier are as under:

SL. NO.	BRIEF DESCRIPTION OF THE ITEM	QUANTITY IN NUMBERS TO BE SUPPLIED	UNIT PRICE	TOTAL PRICE	DELIVERY TERMS
---------	-------------------------------	------------------------------------	------------	-------------	----------------

**TOTAL VALUE:**

**DELIVERY SCHEDULE:**

**IN WITNESS** whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the

said ..... (For the Purchaser)

in the presence of:.....

Signed, Sealed and Delivered by the

said ..... (For the Supplier)

in the presence of:.....