

GLOBAL TENDER ENQUIRY

**FOR PURCHASE OF MEDICAL EQUIPMENT ON BEHALF OF
JANAKPURI SUPER SPECIALITY HOSPITAL
AN AUTONOMOUS INSTITUTE UNDER
DEPARTMENT OF HEALTH & FAMILY WELFARE
GOVT OF NCT OF DELHI**

HLL/PCD/GNCTD/15/JSSH/14-15



BY

HLL LIFECARE LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

Procurement & Consultancy Services Division

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INDEX

Section	Topic	Page No.
Section I	– Notice inviting Tender (NIT) -----	03
Section II	– General Instructions to Tenderers (GIT) -----	05
Section III	– Special Instructions to Tenderers (SIT) -----	24
Section IV	– General Conditions of Contract (GCC) -----	25
Section V	– Special Conditions of Contract (SCC) -----	41
Section VI	– List of Requirements -----	42
Section VII	– Technical Specifications -----	44
Section VIII	– Quality Control Requirements -----	91
Section IX	– Qualification Criteria -----	92
Section X	– Tender Form -----	94
Section XI	– Price Schedules -----	95
Section XII	– Questionnaire -----	99
Section XIII	– Bank Guarantee Form for EMD -----	100
Section XIV	– Manufacturer’s Authorisation Form -----	101
Section XV	– Bank Guarantee Form for Performance Security /CMC Security -----	102
Section XVI	– Contract Form (A & B) -----	103
Section XVII	– Proforma of Consignee Receipt Certificate -----	107
Section XVIII	– Proforma of Final Acceptance Certificate by the Consignee -----	108
Section XIX	– Affidavit-----	110
Section XX	– Check List for the Tenderers -----	111
Section XXI	– Consignee-----	113

SECTION I**NIT No: HLL/PCD/GNCTD/15/JSSH/14-15****Dated: 19.09.2014****NOTICE INVITING TENDERS (NIT)**

1. Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of Janakpuri Super Speciality Hospital, an autonomous institute under, Govt. of NCT of Delhi, invites online eTenders, from eligible and qualified tenderers for supply Medical Equipment as under:

Sl. no.	Tender ID	Description	Qty.	Tender Fees (Rs.)	EMD Amount (Rs.)	Date & time of Prebid meeting	Date & time of closing of online tender	Closing date & time for submission of physical Tender	Date & time of opening of tender
1	2014_HFWD_66673_1	3T MRI System	1	5,000	3,300,000	26.09.2014 11:00AM	28.10.2014 06:00 PM	29.10.2014 02:00 PM	29.10.2014 02:30 PM
2	2014_HFWD_66673_2	CT Scanner System 256 Slice	1	5,000	2,200,000	26.09.2014 11:00AM	28.10.2014 06:00 PM	29.10.2014 02:00 PM	29.10.2014 02:30 PM
3	2014_HFWD_66673_3	Digital X-Ray Unit 1000mA	1	3,000	500,000	26.09.2014 11:00AM	28.10.2014 06:00 PM	29.10.2014 02:00 PM	29.10.2014 02:30 PM
4	2014_HFWD_66673_4	High End 3D Colour Doppler System	1	2,000	165,000	26.09.2014 11:00AM	28.10.2014 06:00 PM	29.10.2014 02:00 PM	29.10.2014 02:30 PM
5	2014_HFWD_66673_5	Colour Doppler Machine	1	1,000	75,000	26.09.2014 11:00AM	28.10.2014 06:00 PM	29.10.2014 02:00 PM	29.10.2014 02:30 PM
6	2014_HFWD_66673_6	Flat Panel Single Plane Cardiac Cath-Lab along with Accessories	1	5,000	1,200,000	26.09.2014 11:00AM	28.10.2014 06:00 PM	29.10.2014 02:00 PM	29.10.2014 02:30 PM
7	2014_HFWD_66673_7	Endoscope System	1	2,000	1,35,000	26.09.2014 11:00AM	28.10.2014 06:00 PM	29.10.2014 02:00 PM	29.10.2014 02:30 PM

- Interested tenderers may obtain further information about this requirement from this office inviting the tenders.
- The prospective bidders who have not registered can register with E-procurement system of NIC by paying necessary registration charges. The bidders may prepare a banker cheque/Draft in favour of Delhi E-governance society and deposit it at E-procurement help desk room. The details of payment can be obtained from help desk.

In order to submit the bids electronically bidders are required to have type-II Digital Signature Certificate. Digital Signature can be obtained from any of the certifying agency.

The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:

- Tender Fee and EMD

- (ii) Pre-qualification and Technical compliance as per following documents (Both online and physical):
- a) Manufacturer's authorization in case bid is submitted by an Indian agent (A declaration must be attached here in case directly quoted by a manufacturer or a document establishing the relation of the Indian office with the manufacturer in case quoted by Indian office of the manufacturer).
 - b) Tender Form as per section X.
 - c) Copy of PAN.
 - d) Certificate of Incorporation/Declaration being a proprietary firm.
 - e) Annual report of last 3 completed financial years (Balance sheet and Profit & Loss Account)
 - f) Name, address and details of account with respect to bidder and/or beneficiary of L/C.
 - g) Quality Control Requirements as per Section VIII
 - h) Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate as per section IX.
 - i) Affidavit as per Section XIX
 - j) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications with all related brochures in the tender enquiry (Both online and physical)

(iii) Price Bid (Only online).

4. All prospective tenderers may attend the Pre Tender meeting. For all the above tender IDs, Prebid meeting shall be held at Conference Room of HLL Lifecare Limited, B-14A, Sector -62, Noida, Gautam Budh Nagar, U.P. - 201 307.
5. To participate in the submission against the tender, it is mandatory for the Applicants to get digital signature and get themselves registered with e-tendering system of various hospitals under Govt. of NCT of Delhi.
6. Tenderer may download the tender enquiry documents from the web site www.lifecarehll.com or www.eprocure.gov.in/cppp or www.govtprocurement.delhi.gov.in and submit its tender online after logging in to their user ID at www.govtprocurement.delhi.gov.in.
7. Tenderers shall ensure that their tenders, complete in all respects, are submitted **online and desired hard copies in original** dropped in the Tender Box located at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh** on or before the closing date and time indicated above, failing which the tenders will be treated as late and rejected.
8. In the event of any of the above mentioned dates being declared as a holiday /closed day for the purchase organisation, the physical form of tenders will be received/opened on the next working day at the appointed time.

Head (P&CD)
HLL Lifecare Limited

SECTION - II**GENERAL INSTRUCTIONS TO TENDERERS (GIT)
CONTENTS**

Sl. No.	Topic	Page No.
A	PREAMBLE	
1	Definitions and Abbreviations	7
2	Introduction	8
3	Availability of Funds	9
4	Language of Tender	9
5	Eligible Tenderers	9
6	Eligible Goods and Services	9
7	Tendering Expense	9
B	TENDER ENQUIRY DOCUMENTS	
8	Contents of Tender Enquiry Documents	9
9	Amendments to Tender Enquiry Documents	10
10	Clarification of Tender Enquiry Documents	10
C	PREPARATION OF TENDERS	
11	Documents Comprising the Tender	10
12	Tender Currencies	11
13	Tender Prices	12
14	Indian Agent	14
15	Firm Price	14
16	Alternative Tenders	14
17	Documents Establishing Tenderer's Eligibility and Qualifications	14
18	Documents Establishing Good's Conformity to Tender Enquiry Document	15
19	Earnest Money Deposit (EMD)	15
20	Tender Validity	16
21	Signing and Sealing of Tender	16

D	SUBMISSION OF TENDERS	
22	Submission of Tenders	17
23	Late Tender	18
24	Alteration and Withdrawal of Tender	18
E	TENDER OPENING	
25	Opening of Tenders	18
F	SCRUTINY AND EVALUATION OF TENDERS	
26	Basic Principle	19
27	Scrutiny of Tenders	19
28	Minor Infirmary/Irregularity/Non-Conformity	19
29	Discrepancy in Prices	19
30	Discrepancy between original and copies of Tender	20
31	Qualification Criteria	20
32	Conversion of Tender Currencies to Indian Rupees	20
33	Schedule-wise Evaluation	20
34	Comparison of Tenders	20
35	Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders	20
36	Tenderer's capability to perform the contract	21
37	Contacting the Purchaser	21
G	AWARD OF CONTRACT	
38	Purchaser's Right to Accept any Tender and to Reject any or All Tenders	21
39	Award Criteria	21
40	Variation of Quantities at the Time of Award	21
41	Notification of Award	22
42	Issue of Contract	22
43	Non-receipt of Performance Security and Contract by the Purchaser/Consignee	22
44	Return of EMD	22
45	Publication of Tender Result	22
46	Corrupt or Fraudulent Practices	22

GENERAL INSTRUCTIONS TO TENDERERS (GIT)

A. PREAMBLE

1. Definitions and Abbreviations

1.1 The following definitions and abbreviations, which have been used in these documents shall have the meanings as indicated below:

1.2. Definitions:

- (i) "Purchaser" means Department of Health & Family welfare, Govt of NCT of Delhi.
- (ii) "Tender" means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.
- (iii) "Tenderer" means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender
- (iii) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.
- (iv) "Goods" means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.
- (v) "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- (vi) "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
- (vii) "Contract" means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- (viii) "Performance Security" means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- (ix) "Consignee" means the Hospital /Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.
- (x) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.
- (xi) "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
- (xii) "Day" means calendar day.

1.3 Abbreviations:

- (i) "TE Document" means Tender Enquiry Document
- (ii) "NIT" means Notice Inviting Tenders.
- (iii) "GIT" means General Instructions to Tenderers
- (iv) "SIT" means Special Instructions to Tenderers
- (v) "GCC" means General Conditions of Contract

- (vi) "SCC" means Special Conditions of Contract
- (vii) "DGS&D" means Directorate General of Supplies and Disposals
- (viii) "NSIC" means National Small Industries Corporation
- (ix) "PSU" means Public Sector Undertaking
- (x) "CPSU" means Central Public Sector Undertaking
- (xi) "LSI" means Large Scale Industry
- (xii) "SSI" means Small Scale Industry
- (xiii) "LC" means Letter of Credit
- (xiv) "DP" means Delivery Period
- (xv) "BG" means Bank Guarantee
- (xvi) "ED" means Excise Duty
- (xvii) "CD" means Custom Duty
- (xviii) "VAT" means Value Added Tax
- (xix) "CENVAT" means Central Value Added Tax
- (xx) "CST" means Central Sales Tax
- (xxi) "RR" means Railway Receipt
- (xxii) "BL" means Bill of Lading
- (xxiii) "FOB" means Free on Board
- (xxiv) "FCA" means Free Carrier
- (xxv) "FOR" means Free On Rail
- (xxvi) "CIF" means Cost, Insurance and Freight
- (xxvii) "CIP (Destinations)" means Carriage and Insurance Paid up to named port of destination. Additionally the Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.
- (xxviii) "DDP" means Delivery Duty Paid named place of destination (consignee site)
- (xxix) "INCOTERMS" means International Commercial Terms as on the date of Tender Opening
- (xxx) "H&FW" means Department of Health & Family Welfare, Government of NCT of Delhi
- (xxxi) "CMC" means Comprehensive maintenance Contract (labour, spare and preventive maintenance)
- (xxxii) "RT" means Re-Tender.

2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – "List of Requirements", which also indicates, *interalia*, the required delivery schedule, terms and place of delivery.
- 2.2 This section (Section II - "General Instruction to Tenderers") provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.
- 2.3 The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.
- 2.4 Before formulating the tender and submitting the same to the purchaser, the tenderer should read and examine all the terms, conditions, instructions, checklist etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.

3. Availability of Funds

Expenditure to be incurred for the proposed purchase will be met from the funds available with the purchaser/consignee.

4. Language of Tender

4.1 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, shall be written in the English language, unless otherwise specified in the Tender Enquiry. However, the language of any printed literature furnished by the tenderer in connection with its tender may be written in any other language provided the same is accompanied by an English translation and, for purposes of interpretation of the tender, the English translation shall prevail.

4.2 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, may also be written in the Hindi language, provided that the same are accompanied by English translation, in which case, for purpose of interpretation of the tender etc, the English translations shall prevail.

5. Eligible Tenderers

This invitation for tenders is open to all suppliers who fulfil the eligibility criteria specified in these documents.

6. Eligible Goods and Services

All goods and related services to be supplied under the contract shall have their origin in India or any other country with which India has not banned trade relations. The term “origin” used in this clause means the place where the goods are mined, grown, produced, or manufactured or from where the related services are arranged and supplied.

7. Tendering Expense

The tenderer shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The purchaser will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

B. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

8.1 In addition to Section I – “Notice inviting Tender” (NIT), the TE documents include:

- Section II – General Instructions to Tenderers (GIT)
- Section III – Special Instructions to Tenderers (SIT)
- Section IV – General Conditions of Contract (GCC)
- Section V – Special Conditions of Contract (SCC)
- Section VI – List of Requirements
- Section VII – Technical Specifications
- Section VIII – Quality Control Requirements
- Section IX – Qualification Criteria
- Section X – Tender Form
- Section XI – Price Schedules
- Section XII – Questionnaire
- Section XIII – Bank Guarantee Form for EMD

- Section XIV – Manufacturer’s Authorisation Form
- Section XV – Bank Guarantee Form for Performance Security/CMC Security
- Section XVI – Contract Forms A & B
- Section XVII – Proforma of Consignee Receipt Certificate
- Section XVIII – Proforma of Final Acceptance Certificate by the consignee
- Section XIX – Affidavit/Undertaking
- Section XX – Check List for the Tenderers
- Section XXI – Consignee List

8.2 The relevant details of the required goods and services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the standard formats to be used for this purpose are incorporated in the above-mentioned documents. The interested tenderers are expected to examine all such details etc to proceed further.

9. Amendments to TE documents

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified in the referred websites only.
- 9.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

10. Clarification of TE documents

- 10.1 A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing on or before the pre-bid meeting.
- 10.2 Each prospective Tenderer can attend the Prebid meeting mentioned in para 4 in Section I with maximum 2 persons duly authorized by Tenderer.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

- 11.1 The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:
- (i) Tender Fee & EMD (Both online and physical).
 - (ii) Pre-qualification as per checklist section XX and as mentioned in para A) below and Technical Bid (Both online and physical)
 - (iii) Price Bid (Only online).

Bidders are requested not to submit the hard copy of Financial Bid along with the physical form of tender. In case the hard copy of financial bid is submitted in physical form, the tender shall be straightway rejected. Also, uploading of the price bid in prequalification bid or technical bid will result in rejection of the tender.

A) Techno – Commercial Tender (Un priced Tender)

- i) Earnest money furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
- ii) Tender Form as per Section X.

- iii) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
- iv) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation Form. **While giving authorization to agent, to quote on their behalf, manufacturer has to give the reasons for not quoting directly against this tender.**
- v) Deleted.
- vi) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
- vii) Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate.
- viii) Deleted
- ix) Certificate of Incorporation.

B) Price Tender:

1. Prices are to be quoted in the attached Price Bid format online as per the directions on the official website.
2. The price should be quoted for the accounting unit indicated on the website.

The bidder shall not submit hard copy of financial bid otherwise his tender shall be straightway rejected. Also, uploading the price bid in prequalification bid or technical bid will result in rejection of the tender.

Note:

It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any.

- 11.2 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrant that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages
- 11.3 A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.
- 11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

12. Tender currencies

- 12.1 The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.
- 12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed /undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.
- 12.3 Tenders, where prices are quoted in any other way shall be treated as non-responsive and rejected.

13 Tender Prices

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as “NA” by the tenderer.
- 13.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.
- 13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI.
- 13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:
- 13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:
- a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
 - b) any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
 - c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
 - d) the price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
 - e) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
 - f) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.
- 13.4.2 For goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:
- a) The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
 - b) The amount of freight and insurance
 - c) the price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List;
 - d) Deleted
 - e) the charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery. Other local costs and Incidental costs, as specified in the List of Requirements and Price Schedule;
 - f) the charges for Incidental Services, as in the List of Requirements and Price Schedule;
 - g) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and

h) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Duties and Taxes:

13.5.1 If the Tenderer desires to ask for excise duty, sales tax/ VAT, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

13.5.2 Excise Duty:

- a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.
- b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
- c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 Sales Tax:

If a tenderer asks for sales tax/ VAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The sales tax / VAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax / VAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forth-with to the purchaser.

13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser. The purchaser should issue the certificate to the supplier within 21 days from the date of receipt of request from the supplier.

However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.

13.5.5 Customs Duty:

The Purchaser will pay the Customs duty wherever applicable.

- 13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.
- 13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.
- 13.8 Unless otherwise specifically indicated in this TE document, the terms FCA, FOB, FAS, CIF, CIP, DDP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris
- 13.9 The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will not restrict the purchaser's right to award the contract on the selected tenderer on any of the terms offered.

14. Indian Agent

- 14.1 If a foreign tenderer has engaged an agent in India in connection with its tender, the foreign tenderer, in addition to indicating Indian agent's commission, if any, in a manner described under GIT sub clause 12.2 above, shall also furnish the following information:
- a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
 - b) The details of the services to be rendered by the agent for the subject requirement.
 - c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.
 - d) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be rendered by the agent and the precise relationship between them and their mutual interest in the business as laid out in section VII (Technical specifications).

15. Firm Price

- 15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- 15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

16. Alternative Tenders

- 16.1 Alternative Tenders are not permitted.
- 16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.
- 16.3 Only one tenderer is permitted to quote for the same manufacturer irrespective of models

17 Documents Establishing Tenderer's Eligibility and Qualifications

- 17.1 Pursuant to GIT clause 11, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.

- 17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:
- a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
 - b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
 - c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

18. Documents establishing good's Conformity to TE document.

- 18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.
- 18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.
- 18.3 If a tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

19. Earnest Money Deposit (EMD)

- 19.1 Pursuant to GIT clauses 8.1 and 11.1 A (i) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.
- 19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).
- 19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:
- i) Account Payee Demand Draft
 - ii) Banker's cheque and
 - iii) Bank Guarantee
- 19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the tenderer, in favour of the "HLL Lifecare Limited" payable at New Delhi. In case of bank guarantee, the same is to be provided from any commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents.

- 19.5 The earnest money, if paid in Bank Guarantee, shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno – Commercial Tender opening date.
- 19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.
- 19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.
- 19.8 In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalised bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.

20. Tender Validity

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, who may not agree to extend its tender validity after the expiry of the original validity period the EMD furnished by them shall not be forfeited.
- 20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

21. Signing and Sealing of Tender

- 21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.
- 21.2 Deleted
- 21.3 The original tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract.
- 21.4 The tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

22.1 The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:

- (i) Tender Fee and EMD (Both online and physical)
- (ii) Pre-qualification and Technical compliance as per following documents (Both online and physical):
 - a) Manufacturer's authorization in case bid is submitted by an Indian agent (A declaration must be attached here in case directly quoted by a manufacturer or a document establishing the relation of the Indian office with the manufacturer in case quoted by Indian office of the manufacturer).
 - b) Tender Form as per section X.
 - c) Copy of PAN.
 - d) Certificate of Incorporation/Declaration being a proprietary firm.
 - e) Annual report of last 3 years (Balance sheet and Profit & Loss Account)
 - f) Name, address and details of account with respect to bidder and/or beneficiary of L/C.
 - g) Quality Control Requirements as per Section VIII
 - h) Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate as per section IX.
 - i) Affidavit as per Section XIX
 - j) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications in the tender enquiry (Both online and physical)
- (iii) Price Bid (Only online).

Bidders are requested not to submit the hard copy of Financial Bid along with the physical form of tender. In case the hard copy of financial bid is submitted in physical form, the tender shall be straightway rejected. Also, uploading of the price bid in prequalification bid or technical bid will result in rejection of the tender.

Unless otherwise specified, the tenderers are to submit its tender online and deposit the physical form of tenders in the tender box kept for this purpose at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh.**

22.2 The tenderers must ensure that they deposit their tenders not later than the closing time and date specified for submission of tenders. It is the responsibility of the tenderer to ensure that their Tenders whether sent by post or by courier or by person, are dropped in the Tender Box by the specified clearing date and time. In the event of the specified date for physical submission of tender falls on /is subsequently declared a holiday or closed day for the purchaser, the tenders will be received up to the appointed time on the next working day.

23. Late Tender

- 23.1 A tender, which is received after the specified date and time for receipt of tenders will be treated as “late” tender and will be ignored.

24. Alteration and Withdrawal of Tender

- 24.1 The tenderer, after submitting its tender, is permitted to alter/ modify its tender so long as such alterations/ modifications are received duly signed, sealed and marked like the original tender, within the deadline for submission of tenders. Alterations/ modifications to tenders received after the prescribed deadline will not be considered.
- 24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

E. TENDER OPENING

25. Opening of Tenders

- 25.1 The purchaser will open the tenders at the specified date and time and at the specified place as indicated in the NIT.

In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

- 25.2 Authorized representatives of the tenderers, who have submitted tenders on time may attend the tender opening provided they bring with them letters of authority from the corresponding tenderers.

The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives’ names & signatures and corresponding tenderers’ names and addresses.

- 25.3 The **Techno - Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno - Commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified after the evaluation of the Techno–Commercial tender. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principle

26.1 Tenders will be evaluated on the basis of the terms & conditions already incorporated in the TE document, based on which tenders have been received and the terms, conditions etc. mentioned by the tenderers in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.

27. Scrutiny of Tenders

27.1 The Purchaser will examine the Tenders 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 Tenders are generally in order.

27.2 The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence

27.3 Deleted

27.4 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non-responsive and will be rejected.

27.5 The following are some of the important aspects, for which a tender shall be declared non-responsive during the evaluation and will be ignored;

- (i) The bidder has submitted hard copy of financial bid (only online submission price bids are allowed).
- (ii) Tender validity is shorter than the required period.
- (iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
- (v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
- (vi) Tenderer has not agreed to give the required performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – "Special Conditions of Contract", for due performance of the contract.
- (vii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
- (viii) Poor/ unsatisfactory past performance.
- (ix) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
- (x) Tenderer is not eligible as per GIT Clauses 5 & 17.1.
- (xi) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
- (xii) Tenderer has not agreed for the delivery terms and delivery schedule.

28. Minor Infirmary/Irregularity/Non-Conformity

28.1 If during the evaluation, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser will convey its observation on such 'minor' issues to the tenderer by registered/speed post/courier/e-mail/fax etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

29. Discrepancies in Prices

29.1 If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the tenderer has

made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.

- 29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and
- 29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.
- 29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

30. Discrepancy between original and copies of Tender

- 30.1 In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail. Here also, the purchaser will convey its observation suitably to the tenderer by register / speed post and, if the tenderer does not accept the purchaser's observation, that tender will be liable to be ignored.

31. Qualification Criteria

- 31.1 Tenders of the tenderers, who do not meet the required Pre Qualification and/or Qualification Criteria prescribed in Section IX, will be treated as non - responsive and will not be considered further.

32. Conversion of tender currencies to Indian Rupees

- 32.1 In case the TE document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the exchange rates established by the Reserve Bank of India for similar transactions, as on the date of 'Price Tender' opening.

33. Schedule-wise Evaluation

Deleted.

34. Comparison of Tenders

- 34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation. **Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted (for required period as mentioned in the list of requirement) after the warranty period shall be added to the bid price for evaluation and will be calculated at a discounted rate of 10% per year.**

35. Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders

- 35.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:
- i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and

ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.

35.2 The purchaser's evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.

35.3 The Purchaser reserves the right to give the price preference to small-scale sectors etc. and purchase preference to central public sector undertakings as per the instruction in vogue while evaluating, comparing and ranking the responsive tenders.

36. Tenderer's capability to perform the contract

36.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.

36.2 The above-mentioned determination will, inter alia, take into account the tenderer's financial, technical and production capabilities for satisfying all the requirements of the purchaser as incorporated in the TE document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by the purchaser.

37. Contacting the Purchaser

37.1 From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.

37.2 In case a tenderer attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by the purchaser.

G. AWARD OF CONTRACT

38. Purchaser's Right to accept any tender and to reject any or all tenders

38.1 The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.

39. Award Criteria

39.1 Subject to GIT clause 38 above, the contract will be awarded to the lowest evaluated responsive tenderer decided by the purchaser in terms of GIT Clause 36.

40. Variation of Quantities at the Time of Award/ Currency of Contract

40.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in

the “List of Requirements” (rounded of to next whole number) without any change in the unit price and other terms & conditions quoted by the tenderer.

- 40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to twenty five (25) per cent, the quantity of goods and services mentioned in the contract (rounded of to next whole number) without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract.

41. Notification of Award

- 41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will be forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.

- 41.2 The Notification of Award shall constitute the conclusion of the Contract.

42. Issue of Contract

- 42.1 Promptly after notification of award, the Purchaser/Consignee will mail the contract form (as per Section XVI) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.
- 42.2 Within twenty one days from the date of the contract, the successful tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser/Consignee by registered / speed post.
- 42.3 The Purchaser/Consignee reserves the right to issue the Notification of Award consignee wise.

43. Non-receipt of Performance Security and Contract by the Purchaser/Consignee

- 43.1 Failure of the successful tenderer in providing performance security and/or returning contract copy duly signed in terms of GIT clauses 41 and 42 above shall make the tenderer liable for forfeiture of its EMD and, also, for further actions by the Purchaser/Consignee against it as per the clause 24 of GCC – Termination of default.

44. Return of E M D

- 44.1 The earnest money of the successful tenderer and the unsuccessful tenderers will be returned to them without any interest, whatsoever, in terms of GIT Clause 19.6.

45. Publication of Tender Result

- 45.1 The name and address of the successful tenderer(s) receiving the contract(s) will be mentioned in the notice board/bulletin/web site of the purchaser.

46. Corrupt or Fraudulent Practices

- 46.1 It is required by all concerned namely the Consignee/Tenderers/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -

(a) defines, for the purposes of this provision, the terms set forth below as follows:

- (i) “corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
 - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;
- (b) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the purchaser if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

SECTION - III

SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

- (i) The following documents shall be prepared and scanned in different files (in PDF or JPEG format as prescribed) and uploaded during the on-line submission of Proposal. These documents shall also be submitted in '**ORIGINAL**' to HLL Lifecare Ltd before the prescribed date & time for submission of Proposals.
 - a) Demand Draft towards Tender Fee in favour of HLL Lifecare Ltd
 - b) EMD in the prescribed format in favour of HLL Lifecare Ltd
 - c) Technical Data Sheet and original technical literature/ Brochure (if any)
- (ii) All document(s)/ information(s) other than above including the Financial Proposal (i.e. **FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL**) should be uploaded **online only** in the prescribed format given in the website. No other mode of submission shall be acceptable.
- (iii) The prospective bidders may **scan the documents in low resolution (75 to 100 DPI)** instead of 200 DPI. The documents may be scanned for further lower resolution (if possible). This would reduce the size of the Cover and would be uploaded faster.
- (iv) The prospective bidders may upload Drawing files, if any, in **“.dwf”** format so that the size of document is less. This is a generic format and all software supports this format.
- (v) At the time of cover content creation, the prospective bidders would have to define the document type as **“.rar”** format.
- (vi) The prospective bidders should be asked to zip all the .dwf files to a .rar file and upload it.

SECTION - IV**GENERAL CONDITIONS OF CONTRACT (GCC)
TABLE OF CLAUSES**

Sl. No.	Topic	Page
1	Application	26
2	Use of contract documents and information	26
3	Patent Rights	26
4	Country of Origin	26
5	Performance Security	26
6	Technical Specifications and Standards	27
7	Packing and Marking	27
8	Inspection, Testing and Quality Control	28
9	Terms of Delivery	28
10	Transportation of Goods	29
11	Insurance	29
12	Spare parts	29
13	Incidental services	30
14	Distribution of Dispatch Documents for Clearance/Receipt of Goods	30
15	Warranty	31
16	Assignment	32
17	Sub Contracts	32
18	Modification of contract	32
19	Prices	33
20	Taxes and Duties	33
21	Terms and mode of Payment	33
22	Delivery	35
23	Liquidated Damages	37
24	Termination for default	37
25	Termination for insolvency	37
26	Force Majeure	37
27	Termination for convenience	38
28	Governing language	38
29	Notices	38
30	Resolution of disputes	38
31	Applicable Law	39
32	Withholding and Lien	39
33	General/Miscellaneous Clauses	39

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

- 1.1 The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract prescribed under Section V, List of requirements under Section VI and Technical Specification under Section VII of this document.

All documents submitted physically or uploaded as scanned copies must be self-attested, legible and numbered.

2. Use of contract documents and information

- 2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.
- 2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.
- 2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

3. Patent Rights

- 3.1 The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.

4. Country of Origin

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

5. Performance Security

- 5.1 Within fifteen (15) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum sixty six (66) months from the date of Notification of Award

- 5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:

It shall be in any one of the forms namely Account Payee Demand Draft or Fixed Deposit Receipt drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in section XV of this document in favour of the Purchaser/Consignee. The validity of the Fixed Deposit receipt or Bank Guarantee will be for a period up to sixty (60) days beyond Warranty Period.

- 5.3 In the event of any failure /default of the supplier with or without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CMC security as per Proforma in Section XV, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within fifteen (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 The supplier shall enter into Annual Comprehensive Maintenance Contract as per the 'Contract Form – B' in Section XVI with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CMC security in favour of Head of the Hospital/ Institute/ Medical College of the consignee as per the format in Section XV.

6. Technical Specifications and Standards

- 6.1 The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections VII and VIII of this document.

7. Packing and Marking

- 7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.
- 7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.
- 7.3 Packing instructions:

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections VII and VIII and in SCC under Section V, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a. contract number and date
- b. brief description of goods including quantity
- c. packing list reference number

- d. country of origin of goods
- e. consignee's name and full address and
- f. supplier's name and address

8. Inspection, Testing and Quality Control

- 8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).
- 8.2 The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.
- 8.3 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.4 In case the contract stipulates pre-despatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.
- 8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.
- 8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.
- 8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.
- 8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognised/ reputed agency like SGS, Lloyd, Bureau Veritas, TUV prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

9. Terms of Delivery

- 9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery and as per the delivery period specified in the schedule of requirement. Please note that the time shall be the essence of the contract.

10. Transportation of Goods

10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments and/or transshipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) terms; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.

In case of airlifting of imported goods offered from abroad, the same will be done only through the National Carrier i.e. Air India wherever applicable. In case the National Carrier is not available, any other airlines available for early delivery may be arranged.

10.2 Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement:

In case no instruction is provided in this regard in the SCC, the supplier will arrange transportation of the ordered goods as per its own procedure.

11. Insurance:

11.1 Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

- i) in case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from ware house to ware house (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.
- ii) in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery for an amount equal to 110% of the overall expenditure to be incurred by the purchaser from ware house to ware house (consignee site) on all risk basis.

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

12. Spare parts

12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

- a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and
- b) In case the production of the spare parts is discontinued:
 - i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and
 - ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.

12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the goods so that the same are used during warranty and CMC period.

13. Incidental services

13.1 Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services.

- i) Installation & commissioning, Supervision and Demonstration of the goods
- ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- iii) Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
- iv) Supplying required number of operation & maintenance manual for the goods

14. Distribution of Dispatch Documents for Clearance/Receipt of Goods

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract.

Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

A) For Domestic Goods, including goods already imported by the supplier under its own arrangement

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post / courier (or as instructed in the contract):

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Two copies of packing list identifying contents of each package;
- (iii) Inspection certificate issued by the nominated Inspection agency, if any.
- (iv) Certificate of origin;
- (v) Insurance Certificate as per GCC Clause 11.
- (vi) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) For goods imported from abroad

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the

following documents to them by registered post / speed post (or as instructed in the contract). Any delay or demurrage occurred during the customs clearance on account of the non-availability of technical support/ clarifications /documents from the supplier shall be borne by the supplier:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Insurance Certificate as per GCC Clause 11.
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd, BEAUREU VERITAS, TUV prior to despatch
- (vii) Manufacturer's own factory inspection report;
- (viii) Certificate of origin
- (ix) Port of Loading;
- (x) Port of Discharge and
- (xi) Expected date of arrival.

15. Warranty

- 15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials, manufacturing or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied goods under the conditions prevailing in India.
- 15.2 The **warranty** shall remain valid for the period as mentioned in the list of requirement/ General Technical specification, after the goods or any portion thereof as the case may be, have been delivered, installed and commissioned at the final destination.
- a. No conditional warranty will be acceptable.
 - b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work and it will also cover the following wherever applicable:-
 - Any kind of motor.
 - Plastic & Glass Parts against any manufacturing defects.
 - All kind of sensors.
 - All kind of coils, probes and transducers.
 - Printers and imagers including laser and thermal printers with all parts.
 - UPS including the replacement of batteries.
 - Air-conditioners
 - c. Replacement and repair will be under taken for the defective goods.
 - d. Proper marking has to be made for all spares for identification like printing of installation and repair dates.
- 15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.

- 15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7(days) X 365(days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non rectification will be applicable as per tender conditions
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of twenty four (24) months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- 15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods
- 15.8 The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.
- 15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.10 The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee.

16. Assignment

The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.

17. Sub Contracts

- 17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.
- 17.2 Sub contract shall be only for bought out items and sub-assemblies.
- 17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

18. Modification of contract

- 18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
- a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
 - b) Mode of packing,
 - c) Incidental services to be provided by the supplier
 - d) Mode of despatch,
 - e) Place of delivery, and

f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.

18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

19. Prices

19.1 Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its tender and incorporated in the contract except for any price adjustment authorised in the SCC.

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser. However, for goods directly imported shall be guided by the INCOTERM.

20.2 Further instruction, if any, shall be as provided in the SCC.

21. Terms and Mode of Payment

21.1 Payment Terms

Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner.

A) Payment for Domestic Goods Or Foreign Origin Located Within India.

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

a) On delivery:

80% payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
- (vi) Certificate of origin.

b) On Acceptance:

Balance 20% payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. Final acceptance certificate will be released by the consignee on completion of installation,

commissioning, training, successful running of equipment (at least 2-3 weeks) and handing over the equipment to the consignee.

B) Payment for Imported Goods:

Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:

a) On Shipment:

Eighty (80)% of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/ Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection certificate issued by the nominated inspection agency, if applicable as per contract;
- (vii) Manufacturer's own factory inspection report and
- (viii) Certificate of origin by the chamber of commerce of the concerned country;
- (ix) Inspection Certificate for the despatched equipment issued by recognized/ reputed agency like SGS, Lloyd, BUREAU VERITAS and TUV prior to despatch.

b) On Acceptance:

Balance payment of 20% of net CIP price of goods would be made against 'Final Acceptance Certificate' as per Section XVIII to be issued by the consignees through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any. Final acceptance certificate will be released by the consignee on completion of installation, commissioning, training, successful running of equipment (at least 2-3 weeks) and handing over the equipment to the consignee.

c) Payment of Incidental Costs till consignee site & Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) will be paid in Indian Rupees to the Indian Agent on proof of final installation, commission and acceptance of equipment by the consignee.

d) Payment of Indian Agency Commission:

Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

C) Payment of Turnkey, if any:

Turnkey payment will be made as indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation/ exchange variation.

D) Payment for Annual Comprehensive Maintenance Contract Charges:

The consignee will enter into CMC with the supplier at the rates as stipulated in the contract. The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the consignee on receipt of bank guarantee for an amount equivalent to 2.5% of the cost of the equipment as per contract in the prescribed format given in Section XV valid till 2 months after expiry of entire CMC period.

- 21.2 The supplier shall not claim any interest on payments under the contract.
- 21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
- 21.4 Irrevocable & non – transferable LC shall be opened by the respective consignees. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.
- 21.5 The payment shall be made in the currency / currencies authorised in the contract.
- 21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.
- 21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- 21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.
- 21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
 - (b) Delay in supplies, if any, has been regularized.
 - (c) The contract price where it is subject to variation has been finalized.
 - (d) The supplier furnishes the following undertakings:

“I/We, _____ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We _____ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment.

22. Delivery

- 22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.

- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
- (i) imposition of liquidated damages,
 - (ii) forfeiture of its performance security and
 - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.
- 22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:
- (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
 - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
 - (c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.
- 22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.
- 22.6 Passing of Property:
- 22.6.1 The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.
- 22.6.2 Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the property does not pass until such thing is done.
- 22.6.3 Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser.

23. Liquidated damages

23.1 Subject to GCC clause 26, if the supplier fails to deliver or install /commission any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods, installation, commissioning and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.

During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.

24. Termination for default

24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.

24.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.

24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

25. Termination for insolvency

25.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/Consignee.

26. Force Majeure

26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.

26.2 For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of , the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees , lockouts excluding by its management, and freight embargoes.

- 26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

27. Termination for convenience

- 27.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate inter alia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.
- 27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:
- a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
 - b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

28. Governing language

- 28.1 The contract shall be written in English language following the provision as contained in GIT clause 4. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

29. Notices

- 29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

30. Resolution of disputes

- 30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitrator appointed by the Director, Janakpuri Super Speciality Hospital. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)

30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.

30.4 Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., New Delhi, India

31. **Applicable Law**

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.

32 **Withholding and Lien in respect of sums claimed**

Whenever any claim for payment arises under the contract against the supplier the purchaser shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of money arising out of under any other contract made by the supplier with the purchaser, pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above ,by the purchaser, will be kept withheld or retained till the claim arising about of or under the contract is determined by the Arbitrator or by the competent court as the case may be ,and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

33. **General/ Miscellaneous Clauses**

33.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.

33.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.

33.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.

33.4 Each member/constituent of the Supplier/its Indian Agent/CMC Provider, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser/Consignee/Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.

33.5 The Supplier/its Indian Agent/CMC Provider shall at all times, indemnify and keep indemnified the Purchaser/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CMC or the Contract.

- 33.6 The Supplier/its Agent/CMC Provider shall, at all times, indemnify and keep indemnified the Purchaser/Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.
- 33.7 All claims regarding indemnity shall survive the termination or expiry of the contract.

SECTION – V

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses. Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

The Warranty and CMC period will be strictly as mentioned in the list of requirement (Section VI, part I) only irrespective of any other period mentioned elsewhere in the tender enquiry. Also, CMC only to be quoted after warranty period instead of AMC mentioned (if any) in the tender specification.

SECTION - VI

LIST OF REQUIREMENTS

Part I

Sl. no.	Tender ID	Description	Qty.	Warranty Period	CMC Period
1	2014_HFWD_66673_1	3T MRI System	1	5 years	5 years
2	2014_HFWD_66673_2	CT Scanner System 256 Slice	1	5 years	5 years
3	2014_HFWD_66673_3	Digital X-Ray Unit 1000mA	1	5 years	5 years
4	2014_HFWD_66673_4	High End 3D Colour Doppler System	1	5 years	5 years
5	2014_HFWD_66673_5	Colour Doppler Machine	1	5 years	5 years
6	2014_HFWD_66673_6	Flat Panel Single Plane Cardiac Cath-Lab along with Accessories	1	5 years	5 years
7	2014_HFWD_66673_7	Endoscope System	1	5 years	5 years

Part II: Required Delivery Schedule:**a) For Indigenous goods or for imported goods if supplied from India:**

90 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date of delivery at consignee site (Tenderers may quote earliest delivery period).

Installation and commissioning shall be done within two weeks of receipt of the stores/ goods at site or within two weeks of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:

90 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Tenderers may quote the earliest delivery period).

Installation and commissioning shall be done within 60 days of receipt of the stores/ goods at site or within 60 days of handing over the site for installation, whichever is later.

For delayed delivery and/ or installation and commissioning liquidated damages will get applied as per GCC clause 23.

Note: Indigenous goods or imported goods if supplied from India (offered in INR) which are linked with supply of directly imported goods are to be supplied within the contractual delivery period as stated in para b) above.

- **Part III: Scope of Incidental Services:**

- Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13

Part IV:

Turnkey (if any) as per details in Technical Specification.

Part V:

Warranty period as per details in general technical specification and as specified in Part I above. Warranty period will be 60 months from the date of installation, commissioning and acceptance or 66 months from the date of last shipment/dispatch, whichever is earlier.

Comprehensive Maintenance Contract (CMC) as per details in Technical Specification as specified in Part I above

Part VI:

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:

At Consignee Site(s)

b) For Imported goods directly from abroad:

The foreign tenderers are required to quote their rates on CIP Named Port of Destination Basis giving breakup of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on CIP Named Port of Destination basis.

Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.


Destination/Consignee details are given in Section XXI


Section – VII

Technical Specification

Sl. No. 1

<u>3.0 Tesla MRI System</u>	
SI NO.	Technical specifications
	Whole Body 3.0 Tesla Magnetic Resonance Imaging System optimized for all body applications, such as musculoskeletal, vascular, pediatric, hepatobiliary, abdominal, cardiac and neurological applications with super conducting magnet, high performance gradients and digital Radio Frequency System. The manufacturer/ bidder must quote the latest 'state of the art' 3 Tesla MR system as per the specifications below or better. Please mention the year of launch of the quoted model. the manufacturer will guarantee the latest available model at the time of delivery. The detailed specification that follows shall be understood to be minimum requirement.
1	Magnet
a	3.0 T active shielded super conductive magnet should be short and non-claustrophobic.
b	It should have at least 70 cm patient bore with flared opening.
c	Magnet length should be less than 200cm.
d	Homogeneity of the magnet should be better than 1.5 ppm at 40 cms (guaranteed homogeneity)
e	The magnet should be well ventilated and with in-bore illumination with built in 2 way intercom for communication with patient.
f	It should have a built in cryo-cooler such that helium consumption is minimized and does not exceed 0.05 litre/hour.
g	Specify hardware and software for acoustic noise reduction.
h	Active shielding/ Fringe field - quote values for 5 Gauss and 1 Gauss line.
i	External shielding - external interference shield (sufficient to house the magnet, anaesthesia and physiologic monitors) should be provided.
2	Shim System
a	High performance, highly stable shim system with global and localized manual and automated shimming including 3D shimming for high homogeneity magnetic field for complete imaging, volume imaging & CSI and spectroscopy.
b	Auto shim should be available to shim the magnet with patient in position
3	Gradient System
a	Actively shielded Gradient system in X, Y, Z planes
b	The gradient should be actively shielded with each axis having independently a slew rate of at least 200 T/m/s and a peak amplitude of 40mT/m.
c	The system should have efficient and adequate Eddy current compensation
d	Effective cooling system for gradient coil and power supply
4	RF System
a	A fully digital RF system capable of Multi Transmission with 2 amplifiers of at least 15kW each or one amplifier of 30 kW, to reduce magnetic susceptibility affects.
b	It should also have at least 32 independent RF receiver channels "acquisition" with each having bandwidth of 1 MHz or more along with necessary hardware to support quadrature array / Matrix coils.


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c	It should support Parallel acquisition techniques with a factor of 12 or more. Highest available PAT factor to be quoted.
d	Should allow remote selection of coils and or coil elements.
e	The operating frequency should cover 23Na, 13C and 31P nucleus (for multinuclear spectroscopy 3Na, 13C and 31P)
5	Patient Table
a)	Patient table should be fully motorized with computer controlled table movements in vertical and horizontal directions. (Specify the patient load capacity)
b)	A CCTV system with LCD display to observe the patient should be provided
c)	Emergency manual traction of the subject from the magnet.
d)	Table technology - Bolus chasing with automatic/ continuous 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 CE-MRA.
6	Computer System/Image Processor Operator Console
a)	The main Host computer should have a 19 inches or more high resolution LCD TFT color monitor with 1024 x 1024 matrix display. The system should have image storage capacity of 100 GB for at least 2,00,000 images in 256 x 256 matrix.
b)	The image reconstruction speed should be at least 1300 images/second or more for full FOV 256 matrix.
c)	The main console should have facility for music system for patient in the magnet room. The system should have DVD / CD/ Flash drive archiving facility. Supply 1000 DVD along with the system. The system should be provided with auto DVD writer.
d)	Patient monitoring devices for ECG, respiratory rate, pulse rate, O2 saturation at console.
7	Measurement System
a)	Largest Field of View should be at least 45 cm in all three axis. Specify the highest FOV and minimum FOV.
b)	The measurement matrix should be from 128x128 to 1024x1024. Highest matrix available to be quoted.
c)	Minimum 2D slice thickness mm should be equal to or less than 0.5
d)	Minimum 3D slice thickness mm should be equal to or less than 0.1
8	Coil System
	The main body coil integrated to the magnet must be Quadrature/CP of the latest technology. In addition to the inbuilt body coil, following coils should be quoted for which the number of channels and number of elements for each coil should be maximum that the vendor has in their product list. All coils (other than coils for exclusive spectroscopy, like surface coils) should be compatible for parallel acquisitions.
i	Multichannel Head coil with at least 15channels for routine brain imaging.
ii	Multichannel Head coil with 32 channels or more for EPI/DTI & fMRI application.
iii	Neuro-vascular Coil with 20 or more channels or Head / Neck Coil combined, capable of high resolution neuro-vascular imaging or combination of head & neck coil for similar coverage.
iv	Spine Array/Matrix Coils for thoracic and lumbar spine imaging with at least 32 channels acquisition per exam

v	Body Array/Matrix coil with at least 40 cm z axis coverage for imaging of abdomen, with at least 32 channels Acquisition for body part angiograms and heart. In case one coil cannot provide this coverage then multiple coils should be offered. (The best available body coil with the vendor must be supplied)
vi	Dedicated surface coil for peripheral angiography application of atleast 32 channels
vii	Bilateral Breast Coil with at least 4 channels with fully functional spectroscopy and complete Biopsy attachment
viii	Dedicated Shoulder Coil- at least 8 channels
ix	Dedicated Knee Coil - at least 8 Channels.
x	Dedicated Wrist Coil - 8 channels
xi	Loop Flex Coil - large & small. (atleast 2 to be provided)
xii	8 Channel or more coil for Neonatal Head and Neck imaging. Or any coil capable of neonatal head and Neck imaging.
xiii	Endo-rectal coil (disposal part only) pack of 5nos – 2packs to be offered as standard. Unit price of each pack to be offered separately and Price of which will be fix for five years. The separate price will not consider for price comparison.
xiv	Dedicated carotid coil capable of assessing of lumen wall & plaque (RAPID or Matchnet) – Optional - price to be offered separately.
xv	Eye ear/TMJ circular coil
xvi	Dedicated Ankle Coil with 8 channels or more
xvii	Suitable coil/coil combination dedicated for cardiac application.
	TOTAL COILS - Please specify the nos. quoted
	For Storage of all coils a caddy to be provided.
	The coil system should permit coverage of 200cm
	The system should continuously monitor the RF coils used during scanning to detect failure modes. RF coils should not require either set up time or coil tuning; Multi coil connection for up to 2 or more coils simultaneous scanning without patient repositioning. i.e. like 4GTIM/GEM/D stream coil combination should be quoted as standard.
9	Application Package
	Data acquisition:
i	The system should be capable of 2D and 3D acquisitions in conventional, fast and ultra-fast spin echo and gradient echo modes so that real-time online images can be observed if needed. All the sequences that are available with the vendor at the time of quote/delivery should be provided as per their manual.
ii	2D multi-slice imaging should be possible in all planes (axial, sagittal, coronal, oblique and double oblique)
iii	Up to 1024 x 1024 matrix acquisitions preferred for all applications
iv	Half fourier or other techniques to reduce scan acquisition time while maintaining adequate SNR
v	3D volume, multiple contiguous slabs, multiple interleaved and multiple overlapping slabs
vi	Slice thickness in 2D and partition in 3D to be freely selectable
vii	Dynamic acquisition (serial imaging) with capability to initiate scan sequences either from the magnet panel or from the console

viii	Dynamic acquisition: number of repeat scans with delay time either identical time interval or selectable
ix	Auto slice positioning from the localizer images
x	Maximum-off center positioning both anterior-posterior and lateral direction and should be selectable
xi	Gating: physiological signals like ECG, pulse, respiratory
xii	External signal triggering (interface for triggering input pulse from external source). The provision should be available at the console also (for fMRI, EEG, etc)
xiii	Simultaneous acquisition, processing and display of image data in 2D multi-slice mode.
xiv	Selection of voxels from oblique slices should be possible while doing spectroscopy.
xv	Artifact reduction/ imaging enhancement/ image filtering/ image subtraction/ addition/ multiplication/ division techniques:
xvi	Flow: 1st and 2nd order flow artifact compensation
xvii	Presentation slabs: a number of relocatable saturation bands to be placed either inside or outside the region of interest
xviii	Graphic prescription
xix	Fat saturation techniques: frequency selective RF pulses to suppress fat signals in the measured image FOV. ROI selective (regional) fat suppression should also be given.
xx	Magnetization transfer saturation: Off resonance RF pulses to suppress signals from stationary tissue in FOV
xxi	Phase contrast capability in 2D and 3D mode: Image intensity correction
xxii	Breath hold acquisition
xxiii	EPI mode
xxiv	DTI with MDDW or equivalent with a minimum of 12 and selectable upto 64/256 direction encoding
xxv	Data acquisition in all three standard planes (axial, sagittal and coronal) and oblique and double oblique planes or more oblique planes
xxvi	Higher matrix acquisition capability in single shot EPI. Acquisition time, TR, TE and slice thickness should be clearly mentioned and supported by data sheet reference.
xxvii	The vendor should offer multi coil acquisition in order to optimize throughput increase and increased effective FOV. Individual acquisition elements of every coil should be mentioned.
Imaging pulse sequences:	
i	All standard and special pulse sequences available at the time of quote/delivery should be offered and quoted in the bid. Fat suppression for high quality images both inversion recovery and Dixon method/ IDEAL/ 3D Dual Echo/ m-Dixen. The system should acquire motion artifact free images in T2 studies of the brain in restless patients (Propeller/ Multivane-XD / Blade, etc.). Dynamic study for pre and post contrast scans and time intensity studies.
ii	The system should be capable of selecting TR and TEs as per requirement in majority of the pulse sequences.
iii	Spin echo (SE): multi-slice single echo, multi-slice multi-echo (8 echo or more), SE with symmetrical and asymmetrical echo intervals and fast spin echo. MT-SE imaging sequence.
iv	Inversion recovery (IR): including short T1 modified IRSE, FLAIR, DIR (Double inversion recovery).

v	Gradient echo (GE): with transverse gradient/ RF spoiling and transverse gradient re-phasing, e.g., GRASE or equivalent etc. 3D gradient echo with shortest TR and TE, free choice of angle selection, while maintaining SNR
vi	Fast sequences
vii	Fast spin echo and GE sequences in 2D and 3D mode with T1,T2 and PD contrast capable of acquiring maximum number of slices with a given TR at minimum TE, echo train should be at least 256 or more in fast spin echo mode
viii	Half fourier acquisition capabilities should be available with/without diffusion gradients and in combination with fast spin echo
ix	Fast inversion recovery with spin echo
x	Fast gradient spin echo IR multi-slice multi-echo mode with maximum ETL. Sequences should incorporate RF focussing to acquire ultra-fast gradient spin echo
xi	Fast gradient echo sequences should incorporate RF spoiling and other technique to acquire images in ultra-fast 2D and 3D modes, gradient echo with ETL of 255 or more.
xii	Fat and water suppressed imaging sequences
xiii	EPI optimized sequences (with and without fat suppression) with ETL of 255 or more.
xiv	For T1, T2, PD imaging, perfusion, regular diffusion values (at least 5b, 3 directions) EPI-FLAIR, EPI-IR, EPI-FLAIR diffusion tensor, EPI-MT-FLAIR, tensor diffusion (atleast 16 b values in minimum 32 directions) and diffusion studies. Suitable artifact/ fat suppression techniques to be incorporated in the sequence to have optimum image quality.
xv	There should be capability of calculating ADC map(isotropic and anisotropy from the regular diffusion and tensor data)
xvi	Optimized sequence package for special applications.
	Special application packages:
i	The vendor must provide their specialized and optimized imaging sequences with post-processing packages for (i) neuro, (ii) body, (iii) oncology, (iv) cardiac, (v)angio, (vi) ortho, (vii) pediatric and other applications. For example, this includes packages like optional/ premium/ advanced/ application suite/ etc.
	Please give details of licences for acquisition post-processing and for special packages quoted for the following applications
a)	Neuro Applications
1	Functional MRI accessories and post-processing:
i	Functional Imaging with package for BOLD Imaging and spectroscopic imaging and processing package capable of real-time processing and display of color overlay (in real time) using 32-channel head coil being supplied with the system.
ii	Complete fMRI solution including audio-visual projection (3D capable) system
iii	The audio-video projection system should have the capability to project 3D images/ movies to the subject, and should be compatible with the 32 channel head coil, and should include all attachments that may be required for complete integration

iv	The system should be integrated with stimulus presentation/ paradigm generator along with licensed software (like superlab, eprime, presentation, etc.) which is capable of presenting audio-visual, audio, video (multiple formats), etc.
v	The paradigm presentation should be synchronised with the scanner (for starting and ending along with measurements)
vi	Integration and provision near the console for external trigger (of the sequence) for synchronising fMRI acquisition with paradigm
vii	Provision of serial ports and DB15 ports in the penetration panel for routing SVGA/EEG connections (one each for customer use)
	fMRI console should have all relevant functions to develop and integrate the paradigm, to deliver the paradigm and also, to monitor the task being presented. The volume control option should also be available with the operator (at a convenient place at the console)
viii	Post-processing work station / server with post-processing software and hardware associated, with licences for processing the BOLD data (with required licensed operating platform required like MATLAB, IDL, etc.)
ix	The system should have the complete hardware & software for visual simulation with facility for generating all paradigm. (optional - price to be offered)
x	The entire fMRI hardware package should be from a single vendor for complete integrated solution. Please specify the vendor.
2	Arterial Spin labeling.
3	Perfusion imaging of brain with software for rBV, CBV etc analysis.
4	Susceptibility weighted imaging with phase information SWI/SWIp/SWAN2
5	Multi Direction DTI with minimum of 32 directions. (Complete package including DTI quantification and tractography software). Prospective motion correction enabled software preferred. Spinal tractography should also be possible.
6	T2 Relaxometry and volumetric analysis for Hippocampus
7	3D-T2 weighted Turbo Spin for volumetric acquisition reconstructed in any plane e.g. for lumbar spine and for nerve root analysis
8	High resolution imaging for inner ear. Please specify sequences eg. CISS or equivalent
9	The system should have facility for flow quantification of CSF aqueduct, spinal canal, vessel flow. Both retrospective and prospective gating should be possible.
10	Whole spine imaging with fusion software.
11	Real time Brain Wave, Pre Acquisition / post processing or Inline BOLD or BOLD Specialist.
12	Sequences such as Double Inversion recovery for 'Plaque Imaging' in Carotids to be provided.
13	MR ventriculography, cisternography, myelography
b)	Cardiac applications:

1	Advanced Cardiac Applications: VCG gating, Morphology/wall motion; Cine perfusion imaging; Myocardial viability imaging; Arrhythmia rejection techniques, Advanced Cardiac Ventricular Measurement Analysis; Cine Cardiac Tagging Techniques; Coronary artery techniques; real time interactive imaging, 2D/3D fast field echo/balanced/steady state techniques. Myocardial tagging, STIR for cardiac use, stress perfusion, 3D acquisition of whole heart in one breath hold.
2	T1, T2, T2* imaging.
c)	Musculoskeletal:
1	High resolution imaging for cartilage and musculoskeletal imaging. Parametric MAP be available. dGEMERIC or equivalent, radial imaging for menisci and labrum
2	The system should have software package for evaluation of bone marrow.
3	Whole body screening imaging studies for metastasis.(PET type of imaging on MR)
d)	Hepatobiliary and abdominal system.
1	High resolution Abdominal and Liver imaging in breath hold and free breathing modes with respiratory triggered volume acquisitions with navigation and liver fat quantification software, and spectroscopy (Standard) (Optional - price to be offered for Liver iron quantification)
2	The system should have basic and advanced MRCP packages including free breathing and 3D techniques.
e)	Vascular Imaging
1	MR angio Imaging Should have 2D/3D TOF, 2D/3D Phase contrast (with and without gating and magnetization transfer saturation), black blood angiography for cerebral, pulmonary, abdominal and peripheral vessels and TONE, ceMRA, Facilities for high temporal and high resolution 4D angio imaging for time resolved vascular imaging with imaging frame of 40 frames/sec or more.
2	Bolus chasing with automatic and manual triggering from fluoroscopy mode to 3D acquisition mode with moving table facility for whole body application. Specify table movement. Inline subtraction should be available.
3	"Non contrast enhanced" peripheral angiography for arterial flow with Native/ Trance/inhance sequences.
4	Time resolved angiography with contrast kinetics like 4D TRAKS/ TWIST/TRICKS
5	Perfusion study in organ systems like kidney, brain, heart etc. quantification of rCBF/ rCBV, MTT, etc, with color maps.
f)	Breast Imaging:
	Advance package including diffusion, spectroscopy and perfusion with time intensity curve. MR breast imaging with simultaneous view of both breast fat suppression SPAIR & visualization of rapid contrast uptake: 4D bliss/Views/Vibrant XV.
g)	Diffusion Weighted Imaging with at least b value of 7000 or more. Whole body diffusion weighted imaging with background suppression
h)	Spectroscopy:
	The system should have the Hydrogen, Single Voxel spectroscopy, Multivoxel, Multislice & Multi-angle 2D, 3D Spectroscopy and Chemical Shift imaging in 2D / 3D. The complete processing / Post processing software including color metabolite maps should be available on main console and the workstation and each of the two clients. Complete prostate, breast, liver spectroscopy hardware and applications should be provided.

	Deleted
	Water and lipid suppression in automated sequences
i)	Prostrate Imaging with Parametric cards (Ktrans, Kep, Ve, Vp) - (Optional price to be offered)
j)	Productivity improvement Techniques with availability of "Previous Scans" such as Smart Exam/ Auto Align /Ready for Brain etc. to be provided. Integrated exam planning should be possible. All filming, viewing and export options should be possible. (Standard) Only breast, MSK, joints including shoulder, hip, knee etc. - (optional price to be offered)
10	Additional optional software and hardware (price to be mentioned separately)
i	Multi Nuclear Spectroscopy: Facility of P31 Imaging & Spectroscopy. Double tuned surface coil for P31 and C13, 23Na Imaging and spectroscopy for liver, calf muscle, heart, etc.
ii	Double tuned head coil fo 31P and C13, 23Na spectroscopy
iii	MR elastography with quantification.
iv	Deleted
v	"Silent MRI" sequence package as close to ambient without any lose of image quality on all sequences.
11	Additional workstation:
	Client server architecture-server with 5 concurrent clients (Dexus, Intelligence Portal, Syngo.via, etc. or higher) capable of rendering 20000 images at peak performance. Workstation hardware should be industry standards, and should be the latest with the vendors, as per their globally launched product catalogue.
	Please quote separate licences for all the processing quoted.
a)	A Server workstation with preferably the same user interface as of main console is required with the availability of all necessary software including.
i.	Basic post-processing software including MIP, MPR, surface reconstruction and volume rendering technique, Image fusion , 3D evaluation on all five concurrent clients.
ii.	Advanced post-processing offered applications including FMRI, perfusion quantification, advanced diffusion and DTI, advanced cardiac evaluation(EF, Calculation, Wall motions, analysis) including perfusion analysis, processing of 2D/3D CSI data, with color metabolite mapping, quantification of CSF flow data, vascular analysis package on at least twoclients concurrently.
iii.	The system should support the DICOM print service class as a service class user (SCU)
iv.	Workstations support the DICOM query and Retrieve SCU
v.	Workstation should retrieve MR spectroscopy images.
b)	Each Client to have at least 19 inch LCD TFT 2MB pixel color monitor, with hard disk of at least 120 GB for at least 100,000 image storage in 256 matrix, and 4 GB RAM capacity- Total five Clients Each of the client should enable printing in laser film camera and color printers. Total 5 client hardware and software to be provided.
c)	Deleted
	The vendor should provide picture storage and archival system, to store and retrieve MR images.

d)	The system should have DICOM 3.0 compliant interface and enabled for networking connectivity to Linux/ Windows based servers/ clients with patient ID labelling and integration to generic hospital information system/ PACS – Integration with existing network.
e)	The monthly recurring expense for broadband / VPN to be provided by Vendor during warranty & CMC period. The hardware for 5 clients to be provided.
f)	Deleted
g)	Deleted
12	Safety Features
	The System should have following safety features
a)	The magnet system should include an Emergency Ramp Down unit (ERDU) for fast reduction of the magnetic field with Ramp Down time below 3 minutes.
b)	The magnet should have quench bands that contain the fringe fields to a specified value in the event of a magnet quench
c)	Real time SAR calculation should be performed by software to ensure that RF power levels comply with regulatory guidelines and are displayed on each image
d)	The system shall have manual override of the motor drive for quick removal of the patients from the magnet bore
e)	Temperature sensor (built in) for magnet refrigeration efficiency must be provided
13	Accessories
a)	DICOM compatible Dry Chemistry laser camera with integrated processor for filming from main console & workstation. The camera should be capable of printing on films of 14" x 17", 11" x 14" and 10" x 8" sizes in a resolution of 500 or more dpi. It should be possible to connect other imaging modalities to the printer. 1000 compatible films to be provided.
b)	A color laser printer for printing high-resolution color-coded 3D images and protocols on plain paper in 1200 dpi resolution or more than 20 ppm or alternatively a dedicated color printer for medical images
c)	The UPS system should be provided for complete MRI unit with Chiller and emergency lights with at least 30 minute back up, preferably 150 kVA or more (specify kVA). An emergency door or hatch should be provided in RF cabin.
d)	RF Cabin: The system should be supplied with the imported RF cabin with RF room shielding, RF Door screen, and interiors for the same should be carried out suitably.
e)	Dual Head MRI-Compatible Pressure Injector with 500 sets of syringes (Two syringes & connecting tubing per set). It should be compatible with 10, 15, 20 & 30 ml pre-filled contrast syringes and 50 ml syringes for both saline and contrast.
f)	Non-magnetic I/V stand
g)	Water Chiller for Cold Head and Gradients
h)	Two Non-ferromagnetic MR compatible patient transfer trollies of international make should be provided
i)	Fire Fighting System, Detectors and 6 Fire Extinguishers (MR Compatible)
j)	Hand held metal detectors - 2 Nos
k)	Closed circuit CCD camera for patient observation.
l)	Phantoms for image quality audits
m)	Defibrillator Biphasic with ECG recording with Adult and Paediatric paddles

n)	MR Compatible Infusion Pump.
o)	Patient positioning accessories with hand held alarm & look-out mirror.
p)	MR Compatible Transport Ventilator.
q)	Two laptops with 512GB storage, 2 GB RAM & Windows 8 operating system (of reputed make) with laser Printer, UPS & dictaphone.
r)	SPECIFICATION FOR MRI COMPATIBLE ANAESTHESIA MACHINE & MRI COMPATIBLE MONITOR
A)	MRI COMPATIBLE ANAESTHESIA MACHINE SPECIFICATIONS:
	Should be MRI compatible at 3T, antistatic, heavy frame & base with good quality castors with front brakes, with following features :
i.	Three gas model viz Oxygen, Nitrous oxide and Air.
ii	Should be compact, ergonomic, easy to use and easy to maintain.
iii.	Should have separate fresh gas outlet for use in open circuit.
iv.	Machine should have flow meters for Oxygen, Nitrous oxide and air. Emergency Oxygen flush should be available. There should be facility to select oxygen-air or oxygen-nitrous oxide with the help of a separate switch or knob.
v.	Dual flow sensing capability at inhalation and exhalation ports.
vi.	Should have paramagnetic/ galvanic cell oxygen sensors. In case of galvanic cell sensors, the firm should supply free sensors for the entire warranty period of 5 years. In case of Paramagnetic sensors, the firm shall ensure that there is no down time during repair of these sensors (if necessary) and provide a standby alternative.
vii.	Shall have back-up Oxygen Control which provides an independent fresh gas source and flow meter control in case of failure.
viii.	Pressure regulators shall be of modular design.
ix.	Should have oxygen fail safe device & an auxiliary built in oxygen flow meter.
x.	Electronic or Mechanical Hypoxic Guard to ensure minimum 25% Oxygen across all O ₂ -N ₂ O mixtures and Oxygen Failure Warning
	Vaporizers:
xi.	Facility of mounting minimum two Vaporizers ,latest technology , key filler, selectatec type, tool free installation ,meaning any vaporizer of our choice can be mounted at will with interlocking facility.it should be preferably of the same make as that of machine.
xii	Temperature ,pressure and flow compensated with high accuracy of delivered concentration of volatile anesthetic agent. Should be maintenance free.
xiii	Two Vaporizers should be supplied (Isoflurane ,Sevoflurane).
	Ventilators:
xiv.	The Machine should have an Integrated Anesthesia Ventilator System, facility to vary respiratory parameters and should be able to ventilate adult and Pediatric patients including infants.
xv	Ventilator should have Controlled ,Manual, Spontaneous modes and provision for PEEP.
xvi	Tidal volume (inspired and expired) respiratory rate ,1 :E ratio, minute volume Airway pressure & FiO ₂ should be continuously displayed..
xvii	Should have Tidal volume and fresh gas compensation mechanism.
xviii	Audio-visual alarms for high and low settings of Pressure, volume and disconnection should be present.

xix	Tidal Volume (VT) 20-1500ml (Volume Control) ,Rate atleast 4-80 BPM.
xx	Inspiratory / Expiratory ratio (I :E) 2:1 to 1:6 &Peak Flow -100 to 120 L/min.
xxi	Ventilator should have at least 30min rechargeable battery backup for ventilator.
xxii	Machine should have an integrated breathing circuit with circle absorber of good quality,easy to clean, autoclavable , fewer parts to reduce leaks.
xxiii	Machine should have mounting capability of One O2 and one N2O pin-indexed cylinder
xxiv	Adult autoclavable (2 sets) breathing circuits & one paediatric circuit to be provided.
xxv	The Machine should be equipped with AGSS.
B)	MRI COMPATIBLE MONITOR
	Specifications for MRI compatibility :
i	Monitor should be equipped with MRI shielding and set to Remote Communication Mode.
ii	Should be MRI safe at 5,000 Gauss , 3.0 Tesla and 4W/Kg SAR.
iii.	System should include fiber–optic SPO2 finger sensor, MRI compatible ECG Patient Leads and Electrodes, NIBP cuffs, hoses and etCO2 sampling kit and temperature probe.
	General Specifications for Monitor :
i	The Monitor should have adult and neonatal application and should be user friendly.
ii	It should be capable of monitoring ECG, non-invasive blood pressure ,oxygen saturation (SpO2) ,ETCO2 and temperature.
iii.	It should have an internal battery which should last for 30-40 min.
iv.	It should be operational at wide temperature (10 degree Celsius – 40 degree Celsius) and humidity (20% to 90%).
v	It should have a facility of 24hours data storage of trended parameters and trend graph of 1,2,3,6,12 or 24 hours display format.
vi	Should have a facility to deactivate all the alarms if necessary.
	ECG Monitoring: Essential Specification:
i	Available leads : I,II,III,V,AVR,AVL,AVF with facility for recording 12 lead ECG.
ii	Should display one or all the selected leads at a time.
iii.	Accuracy of +- 5% of the rate.
iv.	Monitor Mode : Digital Signal Processing (DSP).
v	T-Wave suppression for high field MRI.
vi	Should have arrhythmia monitoring facility.
vii	Should have user selectable alarms.
viii.	Heart rate measuring ranges 15-300 beats/min.
	Pulse Oximeter (SPO2):
i	Should provide a digital value of the arterial oxygen saturation as well as diagnostic plethysmographic pulse waveform.
ii	Measurement range : 0% to100%.
iii.	User Selectable upper and lower alarm limits.

iv.	Probes with finger and ear sensors for adult ,paediatric and neonatal use.
v	Should be sensitive and function accurately even at low perfusion states of low blood pressure or hypothermic conditions.
	ETCO2 Monitoring:
i	Should have side stream Carbon di-oxide module and display both graphically and numerically.
ii	Single beam ,non-dispersive infrared (NDIR) absorpction, radiometric measurement, no moving parts.
iii.	Initialization time less than 10 seconds, full specifications within 1-2minutes.
iv.	Carbon di-oxide range should be 0 to152 mm Hg barometric pressure supplied by module itself.
v	Should be able to detect breath rate in the range of 2-150 BPM.
vi	Respiratory rate accuracy should be + 1 breath.
vii	Barometric Pressure auto compensated from 400mm Hg to 850mm Hg.Operator selectable O2, N2O,HE and Agent Compensation.
viii.	No routine user calibration required. An offset calibration should run automatically when the ambient temperature is not stable.
ix.	Sampling line should have both nasal sampling line and extension sampling line.
x	Warm up time 10seconds.
	Temperature Monitoring :
i	Measuring range: 5 to 50 degree Celsius.
ii	Accuracy + 0.1 degree Celsius.
iii.	User Selectable upper and lower limit of alarm.
iv.	Core and skin probes.
	Non-Invasive Blood Pressure (NIBP) monitoring:
i	Should automatically sense infant / adult cuffs and set appropriate inflation pressure and safety limits.
ii	Operating Modes : Automatic ,Manual ,Stat.
iii.	Accessories ,NIBP cuff :
1	Adult for thigh and arm.
2	Paediatric
3	Neonatal
14	Guarantee
i	Principals and Indian counterpart. The Principals should be responsible for any lacuna or deficit in service or supply.
ii	All items in the supply order should be supplied during the time of installation, No exceptions will be allowed .Items under Research .Agreement should be finalized well in advance (after receipt of supply order). So that there is no delay in delivery of software or coil or any other accessories.
iii	Software upgrades (where hardware upgrades are not required)like new pulse sequence, new application package e.t.c. should be provided within one month after release worldwide (any country,viz. north America/ Europe/Germany etc).In case, the same is not provided in time,the parent company should undertake the responsibility to implement the same.This is to make sure that the machine stays updated with similar products for atleast 5years.

WARRANTY PERIOD	
i	The equipment should have 60months warranty from the date of handing over the fully functional unit of all coils and the accessories supplied (such as UPS, AC, etc) to the hospital against manufacturing defects of material and workmanship. The Helium Supply and cold head repairs (including replacement. If needed) should be included in the warranty period.
ii	Even during the warranty period , the desired uptime of 95% of 365 days (24 hrs basis) will be ensured. In case the down time exceed the 5%limit, extension of the warranty period will be twice the excess downtime period
iii	Note any Liquid Helium due to quenching or due to any other causes during the warranty period shall be borne by the firm.
iv	If a particular coil is not working for more than 3 days and due to which patient work suffers, the firm will, be asked to pay penalty of half-a- day beyond 3 days for each day that it is not working.
POST GAURANTEE ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT (CMC)	
i	The post –warranty (after 5 years) CMC should be comprehensive and should include helium and cold head (repair and/ or replacement) + labour + spares for the complete system which includes all the accessories supplied such as UPS, , AC, etc. (including all consumables like batteries for UPS, etc.) and maintenance for another 5 years. This CMC should be quoted in Indian Rupees. The price of post warranty 5 years CMC shall be taken for price comparison.
ii	The desired up-time during post-warranty CMC is 95% of 365 days (24 hr basis) along with the penalty clause that in case exceeds the 5 % limit, extension of the post-warranty CMC period by the twice the excess down-time period.
iii	The insurance should be done by the bidder to cover the losses, if any, due to force major conditions till the equipment is delivered to the Hospital.
iv	Note any liquid helium due to quenching or due to any other causes during the CMC period shall be borne by the firm.
v	If a particular coil is not working for more than 3 days and due to which patient work suffers, the firm will be asked to pay the penalty of half-a-day beyond 3 days for each day that it is not working.
vi	All local items should be quoted in Indian Rupees. Other items should be quoted in US Dollars only, to have uniformity. The technical and financial bids should be separate.
	The model with 'the best and latest technical features' available with the vendor should be quoted in tender response with original printed vendor data sheets. The system should incorporate all the features as per the December 2013 RSNA standards/declaration.
	All product catalogues in original.
	When the vendor data sheet disagrees with the bid response, clarification should accompany in the form of letter/certificates from the principals in original.
	System should be DICOM - 3MPPS & should be ready to integrate with any existing PACS/HIS System
	List of all installations of the system in the country

	<p>The compliance statement must be filled strictly under headings given in the tender. Each specification corroborated in the compliance statement must give the page number where it is listed in the original technical data sheet along with soft copy. The technical bid should clearly mention model number and make, detailed technical specifications, quantity of each component offered. the technical bid should be duly supported by original brochure/catalogue of the manufacturer and relevant parts proposed to be supplied highlighted. In compliance statement units of measurement used should be same as in the required technical specifications.</p>
	<p>There should be no discrepancy between specifications given in technical bid, brochure and compliance statement. In case of any such discrepancy, the technical bid will be disqualified.</p>
	<p>The quotation should clearly mention the accessories (including quantity) which are part of the main equipment and the price of which is included in the main equipment. The equipment should be fully functional with the standard accessories.</p>



Site Preparation Work for 3.0 Tesla MRI UNIT

The supplier shall be required to undertake all the pre-installation, site preparation work in the area as per the layout plan. The bidder will inspect the site for feasibility before tendering and submit the layout plan for approval of the HOD.

1. Rates of the following components of turnkey project should be quoted separately

- a. Civil
- b. Electrical
- c. Public health (water supply and sanitary fittings) if any
- d. Furniture
- e. Miscellaneous

a) Civil work:

- (i) Active & passive room shielding for magnetic, fringe field should be provided as per the requirement of the equipment
- (ii) Vitrified non-slippery tile wall to wall including dado up to ceiling height including the imaging station except toilets which should have granite
- (iii) Metallic powder coated false ceiling with proper insulation (make to be approved by Engineering department) should be provided in the entire MRI complex
- (iv) Doors and windows (including chokhat and shutters) should be aluminium glazed of thickness 10G with 20micron anodizing and with 6mm thick wired glass 12mm thick pre laminated board for the doors and windows

b) Electrical work & Air conditioning:

- (i) The firms shall be required to specify the total load requirements for the entire equipment, the conditioning units, room lighting and for the accessories if any. The load will be provided by the air institute to the distribution panel. The distributions should have switch gear of Siemens or L&T makes and shall be provided by the vendor. (Any requirement of any kind if required shall be the responsibility of the tendering firm)
- (ii) The electrical work will include wiring, different lights and main switch fittings. The special ceiling light will be required particularly in the equipment room which should have long life and should not be affected by frequent on and off.
- (iii) The electrical work shall include the following:
 - 1) Wiring – The wires shall be of copper of different capacity as per the load and should be renowned make finolex, polycab.
 - 2) Switches light and power points should be of modular type and of make MKiNorth West
 - 3) General lights- Mirror optical type 1x28W or 2x 28W/ CFL fittings 2x36W, 3x36W with electronic ballasts Philips/Crompton/Kesselec-Schreder/Wipro make
 - 4) The underground cables supplying the electricity load should be of Havells/Ecko
 - 5) MCBs/ACBs/MCCBs should be MDS/Siemens/ABB/L&T
 - 6) Roof light CFL down lighter of Philips/OSRAM/Wipro
 - 7) Main switchgears, fuse units should be L&T/ Siemens/ GE
 - 8) Telephone cables should be of Finolex & R.R cables
 - 9) Electrical load of the system to be added as per the tender/brand of the equipment
 - 10) DG set of 250KVA of Cummins/ Kirloskar with canopy (Noiseless). Autostart with main failure
 - 11) Total air-conditioning capacity of 25 Tonnes with 10 Tonnes additional backup.



12) Stabilizer for A/C plant to be provided

c) Public health (water supply and sanitary fittings)

(i) Plumbing work has to be carried out as per the requirement without any hindrance to the existing infrastructure. The waste pipes and accessories should be centrifuge cast iron and the connection of existing main hole in the public shaft shall be done.

(ii) All water pipes and fittings shall be galvanized iron of TATA make. The gratings shall be brass chrome plated

d) Furniture:

(i) Patient chairs/Sofa for (20 seats), office chairs (15 nos.) of Godrej or reputed make

(ii) Office table with 3 chairs and side storage rack (4 seats)

(iii) Storage almirah (4 nos.) of Godrej make

(iv) Open storage racks (Godrej) make 8ft high (6 nos.)

(v) Music system for patient in the scan room and waiting area

(vi) View box (Planilux or Mex or equivalent make) for at least four 14"x17" films – 5 in number

e) Miscellaneous:


(i) One channel stereo musical system inter-room communicating system connecting the reception counter with other cabins of the MRI complex, 24 lines with 3 incoming

(ii) The outdoor units of AC should have grill coverings to prevent theft of copper pipes etc.

(iii) The vendor will provide manpower for utility security and operation on 24x7 for 365 day basis during 5 year guarantee period and subsequently the cost to be included in CMC being offered

The whole package as above should be under guarantee/warranty under the same terms and conditions as per the 3.0 Tesla MRI unit. CMC of the whole AC package system and turnkey work after the expiry of guarantee/warranty shall be covered along with 3.0 Tesla MRI unit.


P-3/9/14
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3/9/14
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3/9/14
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Sl. No. 2

Technical Specification for a New State of the Art multidetector, multislice (256 slice) CT Scanner System on turnkey basis

The system quoted should be latest state of art top of the line with the features of latest RSNA (2013 or later) release. The system to be of 128 or more physical rows of detectors with dual energy application. The scanner should be capable of comprehensive whole body imaging including cardiac, abdomen, neuro and vascular imaging applications, true isotropic volume acquisition. It should also be capable of 3-D reconstructions at fast speeds, quantitative calcium scoring in the vessels using all documented quantification algorithms, 3-D image display during acquisition on-line as well as real time, 3-D vessel imaging with feasibility for volume rendering.

Kindly note that if new technological developments occur and an upgraded system becomes available between the notification of this tender and the time of finalization of the bid, then the newer upgraded version shall be supplied at the rates quoted. The AERB compliance for the equipment, its licensing and installation would be the responsibility of the supplier.

The offer should meet the specifications as followed:

1. Gantry:

- a. The CT Scanner should have low Voltage Slip Rings incorporated in the Gantry
- b. The Minimum scan time for a 360 Degree rotation should be less than or equal to 0.35 seconds.
- c. The gantry should be provided with User control panels on either side for easy positioning.
- d. The sub millimetre Slice @ 0.63 mm or less in 128 rows or more of detector with **256 slice or more acquisitions** should be available as per original datasheet. The system should be in position to perform 256 acquisition Slices/ Rotation for general, cardiac/vascular applications. (Specify the submillimetre slice thickness in millimetres)
- e. The Gantry should have 3D Positioning Laser lights.
- f. The Scan field of view (FOV) in acquisition mode should be at least from 200 mm to 500 mm with intermediate Steps for scanning different anatomies.
- g. Aperture should be at least 70 cm diameter.

2. X ray Section:

- a. The X ray Generator should be compact and inbuilt in the Gantry.
- b. The System X ray power should be 100 kW (actual power) and above
- c. The mA range available should be between 20 to 800 mA or more with increments in steps of not more than 10mA.
- d. The X ray Tube should be essentially Dual Focus. The heat storage capacity should be 7 MHU or equivalent. Specify the method and technique of cooling.
- e. Any special feature of the X ray tube to be highlighted with literature.
- f. Specify the focal Spots of the X ray tube.
- g. The X ray tube should have a cooling rate of not less than 1000 KHU per MIN
- h. The X ray tube Cooler Unit should be in built in the Gantry.



3. Detectors:

- a. The Detector Offered should be Solid State. Specify the Material.
- b. **The 256 acquisition slice or more per Rotation** should be possible. The Systems should have at least 128 Physical Rows of the detector or more.
- c. Specify the Fan Angle of the X rays and the geometry. The detectors should not require frequent calibration.

4. Patient Couch:

- a. The patient table offered should have a minimum load bearing capacity of at least 200 KG.
- b. The Minimum table top height should not be more than 65cms from the floor level for easy transport of trauma patients.
- c. The Floating table top width should be atleast 40 cms for better comfort.
- d. The range of metal free scan should be atleast 165 cms.
- e. The vertical range should be atleast 55 cms (max height — min height)
- f. Specify the reproducing accuracy of the table.
- g. Remote UP/DOWN , FWD/BWD of the Patient Couch should be standard.

5. Topogram:

- a. Length and width: specify range.
- b. Scan times: specify range, specify whether real-time image option available.
- c. Views: should be feasible in frontal and lateral views
- d. Should be possible to interrupt acquisition manually if necessary.

6. Spiral/Helical Section:

- a. The system offered should have Spiral Capability of at least 80 seconds & above. Real Time Spiral @ 10 f/s should be standard.
- b. The range of Spiral facility in Axial Direction should be more than 100 cms.
- c. The Reconstruction Time in Spiral scan should not be more than 100 Milli seconds.
- d. The system should have the Smart Prep or equivalent facility & ability to track Contrast medium to trigger scan should be included in the scope of Supply
- e. High Resolution scan package should be offered as standard and Specify the minimum slice thickness for which High Resolution scan package is possible.
- f. Multi Slice CT Fluoroscopy to be quoted as standard. Price should be quoted separately.

7. Computer Section:

- a. The Computer offered should be the Latest Multi tasking Processors and a menu driven platform with a RAM size of at least 4GB.
- b. The medical grade monitor should be the latest Color of at least 18 inches and flat screen. Two Monitor Independent Console preferred. The Twin Monitor system should work on either shared or Common data base.
- c. The display matrix should be at least 1024 x 1024.
- d. The reconstruction time for an Axial scan should not be more than 100 milli seconds.



- e. The Hard disk Capacity for both Image and Raw data should be more than 500GB
- f. It should have facility to store at least 250,000 Images
- g. The system should be supported with archiving facility of DVD & CD Main Console
- h. DICOM facility to send , store , print , receive, Query / Retrieve , MWM , MPPS etc should be standard.
- i. PC Based connectivity should be standard for easy transfer of Images & Report. The image transfer from main console to workstation should be automatic and immediate.
- j. CT should be with dual monitor console with two workstations (thin client server architecture based solution) comprising of medical grade monitors (2 mega pixel resolution) with atleast 8GB RAM. The server should have image storage capacity of 3 tera bytes, minimum 40000 concurrent slice processing power and atleast 64 GB RAM. It can be single/dual server configuration. The workstation should have following processing capabilities.
 - i. MPR
 - ii. Minimum and maximum intensity projection.
 - iii. 3D volume rendering.
 - iv. 3D SSD (Shaded Surface Display).
 - v. Advanced vessel analysis.
 - vi. Auto bone removal.
 - vii. Lung nodule assessment.
 - viii. Liver lesion analysis.
 - ix. Virtual endoscopy.
 - x. Dedicated colonoscopy.
 - xi. Time point comparison.
 - xii. Whole organ (brain & body) perfusion CT.
 - xiii. Coronary tree analysis: automated 3D processing of coronary arteries, calcium scoring, stent analysis, LV analysis.
 - xiv. Neuro DSA with automated bone removal.
 - xv. Fusion CT: fusion of morphological data of CT & MRI.

8. Image Processing section

- a. Cardiology and Oncology post processing tools to be quoted as standard. The post processing tools of the perfusion and others as quoted below to be available in the workstation.
- b. The system should have standard software like 3D Volume rendering , MIP,CT angio, color angio Display, CT Perfusion , Dental scan , Bone Mineral Study should be available as standard on the Workstation .
- c. Quote as OPTIONAL: Computer Aided Detection (CAD) Colonoscopy to be provided. (Price to be quoted separately).
- d. The following soft ware should be offered as standard (MPR , ROI , VOLUME CALCULATION , CT NUMBER DISPLAY , WINDOW WIDTH , WINDOW LEVEL , TOPOGRAM DISPLAY , CINE DISPLAY , HRCT LUNG, DYNAMIC SCAN)



- e. Cardiac Scan Attachment with ECG Gated Segmented Recon , Calcium score , Vessel Flythrough of the Coronaries should be available with software package at workstation and thin client server stations.
- f. Automatic display of MPR Images after scan will be preferred.
- g. Bolus triggered Brain Perfusion CT study (at least 3-level) with automatic CBF, CBV, MTT, TTP maps, ROI placing, comparing ROI, saving maps
- h. Neuro DSA with automatic bone removal software
- i. Dental CT: high-resolution evaluation of teeth and jaws with automatic panoramic and paraxial reconstruction, evaluation of mandibular canal and life size filming.
- j. Fusion CT: fusion of morphological data obtained on CT, MR or DSA.
- k. Lung CT: low dose lung CT protocols for advanced lung nodule detection, assessment and follow-up. Lung segmentation software for nodule detection.
- l. LUNG CAD for virtual bronchoscopy to be provided.
- m. Bone / Osteo / Dental CT software to be provided.
- n. Post processing should also have liver segmentation analysis, whole body perfusion, tumor tracking, myocardial assessment.

9. Dual Energy Applications:

- a. DUAL ENERGY APPLICATIONS to be provided as standard: Renal Calculi Characterisation & Gout.
- b. All other dual energy applications available with vendor should be listed as optional with price of each quoted separately.
- c. Proof of availability of dual energy application must be supported with original datasheet.
- d. Dual energy application must be possible on all workstation and all fields of view with minimum FOV 33cm.
- e. DUAL ENERGY APPLICATIONS like Metal Artifact Correction / Beam Hardening artifact Correction, Brain Haemorrhage to be provided with the system. Any other application for dual energy if present in future upgrades should be part of the system.

10. Resolution:

- a. The System Spatial Resolution should be mentioned with parameters.
- b. The high contrast resolution should be more then 20 lp/mm in all routine scan, including spiral and axial mode.
- c. The low contrast resolution should not be more than 3 mm at 0.5 %.
- d. Shoulder , Pelvis Streak Artefact suppression Software should be standard.
- e. Noise Suppression protocols to maintain LCR at low dose should be standard.
- f. Special Softwares (Like MA Modulation in Routine & Cardiac Mode) to ensure Dose efficiency should be standard.
- f. Specify the CT Dose Index.
- g. Should have iterative reconstruction technique for X Ray dose reduction.
- h. Low dose Paediatric CT mode should be available
- i. Patient radiation dose should be displayed on the monitor & films.



11. Accessories: (Make and Model of all the quoted accessories should be specified) and data sheet in original to be submitted

- a. Dry chemistry camera of DPI 500 or more of any reputed make. The camera should accept all size films upto 14" x 17" size with three loading cassettes and 500 films to be supplied.
- b. Lead Glass of 200 x 100 cm.
- c. Online UPS with half an hour back up to run the entire CT, Computers, Dry chemistry camera, Work Stations etc.
- d. Dual Head Pressure Injector of reputed make with 300 sets of Syringes & 1000 sets of tubings and connectors.
- e. Multi Para monitor (5 parameter) with pulse oximeter of a reputed make for monitoring vitals; include details and parameters.
- f. Patient radiation dose should be displayed on the monitor as well as on the films
- g. ULTRA LIGHT WEIGHT lead free aprons - 4 Nos.
- h. Apron stand — 1 No.
- i. Apron Hanger suitable for the supplied aprons, shields. (Lead Free)
- j. Thyroid Shields – 4 nos. (Lead free)
- k. Gonadal Shields – 4 nos.(Lead free)

12. Warranty:

Five Years for CT Scanner System including X ray tube and all accessories. 98% uptime should be maintained during the entire Warranty period. In case of downtime exceeding more than 2%, warranty will be extended double the down time period. All items and turnkey works civil, electrical etc. are included.

13. Datasheet: All compliance to the tender should be in the form of Original Data sheet or Original Certificate from the manufacturer; Page number of datasheet to be mentioned in compliance statement.

14. Training for a period of Six Weeks to Radiologists and radiographers on site. In addition application engineer/ expert to be provided till satisfaction of end user.

15. Certifications:

- a. Offered model should be European CE and US FDA approved. Copy of certifications should be submitted with bid
- b. The quoted model should be AERB approved. Copy of AERB type approval should be submitted with bid.
- c. Periodic quality assurance certification of the equipment at quarterly intervals will be carried out by the vendor/ supplier as per AERB guidelines during warranty and CMC period

The Turnkey Scope of Work - CT

1. The Supplier should inspect the proposed site offered by the Consignee Institute in which the CT system has to be installed and they are required to submit the plan for the complete CT Scan Centre on a turnkey basis. The scope of work includes complete Civil



work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of CT Scan Centre.

2. While preparing the plan, the following aspects have to be addressed.
 - a. Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
 - b. Radiation shielding for doors, walls, windows etc.
 - c. Furniture like desk, chairs, shelves etc.
 - d. Patient stretcher and other furniture/ accessory to make the scan centre functional.

3. **The cost of Turnkey for the area of 1500 sq.ft and Air-conditioning of Tonnage 15 TR will be considered for Ranking / Evaluation purpose.**

4. Moreover Bidders will have to quote the Unit Rates of the following components of turnkey work. a) Civil works b) Electrical work c) Public health (plumbing and sanitary fittings). d) Air Conditioning (HVAC) e) Interior Furnishing & Furniture f) Miscellaneous

Scope of work for turnkey CT unit works:-

The supplier should inspect the proposed site and submit all the detailed structural and architectural drawings and BOQ for the proposed CT Scan Centres along with technical bid of the tender. The CT SCAN CENTRE shall consist of the following rooms:

- a. CT Gantry Room
- b. Console room
- c. Equipment room
- d. Patient preparation room
- e. Reporting room
- f. Patient waiting area
- g. Radiologist room

The actual area of turnkey works done will be considered for payment, based on the site measurements.

1. Civil work

- a) Civil construction work including construction of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
- b) Concrete bed at CT equipment area.
- c) Platform for unloading and shifting the CT should be provided if necessary.
- d) Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.
- e) All the construction work to be done as per the final plan approved by the Consignee.
- f) Active and passive room shielding for magnetic, fringe field should be provided as per the requirement of the equipment.

a) Flooring

1. 600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.



2. 50 mm thick cement concrete flooring with Vinyl flooring in CT equipment / UP room.

b) Painting

1. Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, CT Gantry & Equipment room etc.

c) False Ceiling

1. Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling. Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.

2. Plumbing work

1. All water pipes and fittings shall be of high density polythene of approved and standard make. The gratings shall be brass chrome plated. All plumbing accessories should be of standard make.

2. Hot water service to be provided if required.

3. Electrical work

1. The supplier shall be required to specify the total load requirements for the CT scan centre including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the CT Scan centre area. The distribution panel shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.

2. The electrical work shall include the following:

a. Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed below.

b. Switches light and power points should be of modular type and of standard make as listed below.

c. General lights – Mirror optical type 1X28 W or 2X28 W/CFL fittings 2X36, 3X36 W with electronic ballasts

3. AIR CONDITIONING:

Ductable package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. The Air conditioning should be designed with standby provision to function 24 hours a day. The outdoor units of AC should have grill coverings to prevent theft and damage.

Ventilation is required in toilet.

4. Environment specifications:

a) Humidity range: Relative humidity 60% and 80% in all areas except equipment room which shall be as per requirement of the equipment.



b) Temperature ranges: 22± 2° C in all areas except equipment room which shall be as per requirement of the equipment.

c) Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.

5. Furniture:

a) Revolving chairs height adjustable, medium-back with hand-rest in the Control room, Radiologist room and viewing area. – **4 NO.S**

b) Chairs for patient waiting area – Three seater (chrome plated). - **10 NO.S**

c) Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – **3 NO.S**

d) Drug trolleys 1 numbers for patient preparation area.

e) Patient trolley with rubber foam mattress to be kept in the patient preparation room.

f) Name boards for all rooms

g) Tables for Workstation and Radiologist in reporting room.- **2 NO.S**

h) Changing rooms should have change lockers and dressing table.

i) Dustbins (plastic with lid) to be provided as required.

j) Any other furniture item as per requirement.

All furniture items should be of standard make as mentioned in the table below.

6. Miscellaneous:

1. Reporting room should have LED X-ray Film viewer with adjustable brightness ; capable of holding 4 films of 14"x17" size. – **3 no.s**

2. Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers etc.

3. Broadband connection: for REMOTE SERVICE of CT system.

4. Fire extinguisher Dry CO2 type as required for the building safety.

LIST OF ITEMS AND SUGGESTED MANUFACTURERS

SL NO	ITEMS	PREFERRED MAKES
A	FLOORING VITRIFIED TILES	Somany, Kajaria , H&R Johnson, RAK india
B	PAINT	Dulux, Asian Paints , Nerolac
C	PLUMBING	Kohler, Jaguar , Grohe , Roca
D	SANITARY ITEMS	CERA, Hindware, Parryware
E	ELECTRICAL	
1	CABLES	Finolex, Havells ,V-Guard
2	SWITCHES	Legrand, L&T, Crabtree , Roma
3	DISTRIBUTION BOX , MCB	Legrand, L&T, Siemens, Havels

4	LIGHT FITTINGS	Philips / Crompton /
F	AIR CONDINTIONING	Kesselec-Schreder / Wipro. Daikin, Hitachi, Blue Star, Voltas,
G	FURNITURE	Hermen Miller , Godrej , Featherlite

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Sl. No. 3

Digital X-Ray Unit (1000 mA)

The unit should be completely integrated system (integrated X ray generator and image acquisition control console) having the following specifications. Any two components out of three (X-Ray tube, X-ray Generator and Flat panel detectors) should be from the same manufacturer of the main (Complete) system

1. Generator

- a. 1000 MA unit with microprocessor controlled high frequency X-Ray generator with power output of 80 KW
- b. Specify KV and mA range
- c. Specify exposure time range
- d. For trauma patients the generator should have minimum exposure time.
- e. There should be provision for automatic exposure control.

2. X-Ray Tube

- a. Ceiling suspended
- b. Dual focus tube
- c. Mention size of each focus
- d. Tube loading should be at least 30 KW for small and at least 80 KW for large focus
- e. Motorized movement of ceiling suspended tubes
- f. Mention range of tube movements in vertical, longitudinal and horizontal planes
- g. Electromagnetic locks collision protection sensor
- h. Field size programming should be possible

3. Horizontal Bucky Table

- a. Adjustable height floating top compact bucky table with digital flat panel detector.
- b. Mention range of vertical, horizontal and longitudinal movements of the table.
- c. Horizontal Bucky Table-- Foot switches for – adjusting height, longitudinal/side to side movements, locking.
- d. Removable grid.
- e. Automatic exposure control should be available.

4. Vertical Bucky

- a. Counter balanced adjustable height vertical Bucky with digital flat panel detector.
- b. Detector movement should be synchronized with movement of the X-ray tube.
- c. Vertical Bucky- Vertical detector system should be tilt table (-15° to + 90°) and should travel from 1' to 6' above floor level.
- d. Automatic exposure control.
- e. Patient display.



5. Detector System

- a. Digital flat panel detector system with detector integrated into the Bucky table and wall stand.
- b. Minimum size of detector must be 43 cm X 43 cm
- c. Image matrix size 2k X 2k pixels
- d. Pixels size to be 145 micron or less
- e. Image resolution
- f. Specify picture elements
- g. Tube assembly movement to be automatically synchronized with the detector movement.
- h. Should allow centered/de-centered collimation
- i. Specify refresh cycle (time for second exposure)

5. Operating Station

- a. Should have a high resolution monitor minimum 19" size (TFT/LCD) with minimum 1024x1024 or more display matrix and antireflective front screen.
- b. Operating console should have facility for patient identity entry, viewing and processing images, documentation
- c. Specify time for the image to appear on screen after exposure - Next exposure should be possible while processing is in progress on the operating station

7. Image Viewing and Reporting Station and Documentation

- a. Should have high resolution, minimum 19" size (TFT/LCD) monitor.
- b. Image acquisition matrix should be minimum of 3K x 3K.
- c. Image display matrix should be of high resolution, minimum of 1.5 Kx 1.5 K.
- d. High luminescence display for diagnostic image viewing.
- e. Post acquisition image processing, viewing, reprocessing, hard copy documentation and onward transmission should be possible.
- f. Image Viewing and Reporting Station and Documentation - Should be connected to a Dry chemistry Camera of at least 500 DPI for documentation. The camera should accept all size films up to 14"x17" size.
- g. Storage capacity 1 TB with retrieval facility.

8. Image storage and Transmission

- a. Hard disc storage capacity should be minimum of 3000 images
- b. The systems should support storage of images on compact discs/DVD
- c. The system should be DICOM 3.0 (or higher version) ready (like send, receive, print, record on CD/DVD, acknowledge etc.) for connectivity to any network, computer/PC etc. in DICOM format.
- d. Easy integration and networking should be possible with any other existing/future networking including other modalities, HIS and RIS and PACS



9. Accessories

- a. Voltage stabilizer for complete system
- b. Online UPS for the complete system with 30 minute backup
- c. Dry chemistry camera with at least 500 DPI resolution. The camera should accept all size films upto 14" x 17" size with three loading cassettes and 500 films to be supplied.
- d. Image viewing and reporting station
- e. Necessary furniture and fire extinguisher system.

10. Certificates to be submitted

- a. The unit must be US FDA or European CE approved.
- b. The unit should be AERB type approved. The AERB certification for site and licensing of the equipment will be the responsibility of the supplier

11. Installation

- a. The cost of alteration and preparation in a specified built in area on turnkey basis which will include civil, electrical and air conditioning and maintenance of air conditioning is to be borne by the firm.
- b. This work should be done in consultation with the Department of Radio-diagnosis and Engineering Section of Institute.
- c. Power supply to be clarified.
- d. Periodic quality assurance certification of the equipment at quarterly intervals will be carried out by the vendor/ supplier as per AERB guidelines during warranty and CMC period

12. Warranty/After Sale Service

- a. Five year comprehensive onsite warranty of entire system (Spares and labour) including X-ray tube and all accessories and civil, electrical and air conditioning works. This will be followed by 5 years comprehensive AMC.
- b. 95% uptime guarantee should be given. In case down time exceeds 5%, penalty in the form of extended warrantee, double the number of days for which the equipment goes out of service, will be applied

Turnkey: X-ray Installation 1000 mA

Total covered area should be approximate as per actual drawing attached

To be provided by the consignee

- 1. Bare Walls.
- 2. Power Supply - Till the room to be provided. However rates per meter of cabling and other accessories needs to be quoted as optional item in case this job is assigned to the bidders.
- 3. AIR- CONDITIONING - Ducts to be provided till room. However bidder to be quote as optional item for split a/c intimates tonnage if this facility has to be provided by the bidder.
- 1. Payment to be made as per actual on pro-data basis.



2. The optional items will not be considered for ranking purposes.

Turn Key to be provided by the Bidder

1. Rate per sq. ft for lead lining to be paid in the event of the wall thickness does not meet the AERB requirements.
2. Flooring
3. False ceiling
4. Vitreous Tiles on the walls however in case the lead linings are provided, the cost may be adjusted accordingly
5. All trenches and railings wherever required
6. Any other necessary work required for satisfactory working of the equipment.

Schedule of Finishes-

1. Total covered area should be approximate as per actual drawing attached.
2. The thickness of the walls should be according to AERB/BARC norms.
3. Should provide lead lining were ever required. (Doors, Etc.) As per AERB/BARC norms.

Sl. No.	Room	Flooring	Skirting/Dado	Walls	Ceiling
1.	Reception, Waiting, Patient Preparation	300x300x8.5 mm thick mirror stone tiles.	100mm high tile skirting to match floor.	Cement plaster & Emulsion paint	Perforated Al. Panel or as required False Ceiling with acoustic lining & Al or as required, suspension
2.	Examination Room	300x300x2.0 mm thick vinyl tiles	100mm high hard wood skirting	Pre-laminated particle board wall panelling	-Do-
3.	Control, Room & Corridor	300x300x8.5 mm thick granite	100 mm high granite tiles skirting	Cement plaster and plastic emulsion paint	-Do-
4.	Electrical room	52mm thick cement concrete flooring with hardener	100 mm high cement plaster skirting	Cement plaster and dry distemper paint	Plaster and dry distemper

Sl. No.	Room	Flooring	Skirting/Dado	Walls	Ceiling
5.	Toilet and pantry	300x300x8.5 mm thick ceramic tiles (polished on counter top)	100x200x5 mm thick glazed tiles up to door height from floor level.	Plaster & oil bound distemper on walls above false ceiling	Gypsum board false ceiling with oil bound distemper paint

AIR- CONDITIONING

1. The consignee will provide with a/c Ducts till room . However rates per meter of cabling and other accessories needs to be quoted as optional item in case this job is assigned to the bidder
2. Should provide split a/c or equivalent with wireless remote control separately to Gantry room, Operating and Study consoles, reception etc..
3. The capacity of the a/c should be sufficient to maintain the require temperature.
4. It is the responsibility of the bidder to provide all the electrical accessories.

Schedule of furniture:

Following furniture should be provided:

AREA	DESCRIPTION	QTY.
Waiting & Reception	: Reception desk in block board construction with granite top	1 No.
	: Storage cupboard	1 No.
	: Reception chair	1 Nos.
	: PVC moulded chairs on common steel stand in group	12 Seats
	: Corner Table	4 Nos.
Control Room	: Low backed swing chairs on castors with armrests	3 Nos.
	: Film Viewer (6 films)	1 No.
Gantry Room	: Drug trolley on castors	1 No.
	: Lead Aprons (Light weight)	4 Nos.
Patient preparation	: Patients couch	1 No.
	: Drug trolley	1 No.
	: Examination Stool	1 No.

All the furniture should be of Hermen Miller , Godrej , Featherlite make.

It is the responsibility of the bidders to visit the consignee site for assessing site requirements and readiness.

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Sl. No. 4

High end 3D Colour Doppler System

The equipment must be capable of operating in B, M, Doppler, Color flow and Power Doppler modes, Contrast microbubble ultrasound & 3D / 4D Volume Scanning capabilities.

It should support transducers with linear, sector and convex formats. Further, it must include a full array of measurement and calculation packages. The specific minimum requirements for this equipment are as follow.

1 User Interface & Ergonomics

- 1.1 The keyboard should have Height adjustment. The adjustment should also include Keyboard rotation Side to Side.
- 1.2 The system shall support backlight keys or provide an integrated light for ease of use in darkened work areas. The backlighting shall simplify ease of use and indicate function selected.
- 1.3 The system shall include at least a 19" LCD monitor for both excellent image viewing as well as providing for workflow and productivity features.
- 1.4 The LCD monitor shall be mounted on an articulating arm that moves side-to-side, forward and backward.
- 1.5 The system shall include a minimum 7 inch LCD with context sensitive menus to facilitate productivity as well as minimize training requirements.
- 1.6 The system shall have minimum Four or more active probe Ports in a convenient, easy to access location to maximize the availability of needed probes.

2 Productivity

- 2.1 The system shall offer an extended field-of-view imaging that operates by sweeping a transducer over the anatomy of interest. This mode shall build the extended field-of-view in a real-time manner, showing the image as it builds.
- 2.2 System shall have image management features that store images by patient and include the ability to review images from different exam dates.
- 2.3 System shall support the ability to store digital data in, that allows to optimize imaging parameters such as B Gain, TGC, Color Gain, Dynamic Range, Speckle Reduction levels, Doppler Gain, Doppler Base Line on old Images & old loops recalled from the image archive.
- 2.4 System shall allow for live image and archive images side-by-side or quad display on a single monitor. This display shall allow any type of image – B-Mode, Color, or power Doppler on either side.

3 Workflow

- 3.1 The system shall implement a feature, which enables to help streamlining the workflow. In particular the system should automatically invoke the correct mode and imaging parameter and advance to the next step within the examination with a one-bottom operation.

4 Realtime 3D / 4D Imaging Capabilities

5 Elastography should be available in convex, Linear and whole body convex Probe.

6 Contrast Ultrasound Capability

7 Data Processing.

- 7.1 The system shall allow for Post-Storage image manipulation to provide maximum



image flexibility, review and productivity. It shall include the ability to change all following on recalled old Stored Images/Loops :

- a Overall B-Mode gain, dynamic range and gray scale maps.
- b Overall Doppler gain, base line shift, sweep speed and inverted spectral waveform.
- c Anatomical M-Mode

7.2 The system shall allow for Post storage image retrieval and calculation.

8 Scanning Parameters

8.1 The system should have minimum **65,000 digital system processing channels**.

8.2 The system shall possess the ability to control speckle through the use of a speckle reduction algorithm that enhances borders, reduces speckle artifact and improves detail and contract resolution in gray scale with compatibility in Color mode, 3D and side-by-side display. This feature shall have operator selectable settings and be capable of displaying in side-by-side mode with non-speckle reduced image.

8.3 The system shall provide the ability to scan in the compound imaging mode with up to 9 lines on all linear and convex probes.

8.4 The system shall provide scan depths from a minimum of 0 cm to a maximum of at least 30 cm.

9 B-Mode / M-mode Imaging

The system shall provide the capability for coded tissue harmonic imaging on all offered transducers.

The system shall have an —anatomical M-Mode – allowing the M-Mode cursor to be adjustable in any plane and allow for accurate measurements.

10 Color flow/Power Doppler

11 Spectral Doppler (PW)

12 Measurements and Calculations

12.1 Measurements should be possible on frozen images as well as on images recalled from the image archive.

12.2 The system shall provide a comprehensive set of obstetrical and gynecologic calculations and vascular calculations with summary reports.

13 Image Archive and Networking

13.1 The device should store images onto an integrated DVD-R Multiridrive and a USB port storage device.

13.2 The system shall include at least **500 GB hard drive** for large local storage capacity.

13.3 The device should store images in DICOM, JPG, WMV and AVI formats for maximum flexibility.

14 **DICOM Connectivity - DICOM Connectivity should be a standard feature with the hospital network and a standalone PC (Windows based) with suitable DICOM viewer to be supplied**

15 Transducers

- a Convex, **with biopsy attachment**. Operating Frequency: 2 - 5 MHz
- b Linear, **with biopsy attachment**. Operating Frequency: 5 – 10 MHz
- c **TCD Sector probe**.
- d Trans-vaginal Probe **with Biopsy attachment**, Frequency 3-9 MHz
- e **3D / 4D Volume Convex Probe**

- f **Pediatric micro convex probe for neurosonogram.**
- 16 Essential accessories: Black & White Thermal printer with 100 paper rolls and color laser printer with 500 sheets, Jelly Bottle -20Nos., Suitable On-Line UPS with one hour backup for complete system, mobile cart with transducer holder, jelly bottle holder and space for printer
- 17 **The system should be USFDA or European CE certified.**
- 18 System upgradability option should be available for Fusion/ Navigation. **It should also have upgradable to 3D endocavitary application.**
- 19 **The bidder has to arrange for demonstration of the quoted model.**
- 20 Warranty & CMC should cover complete system, Probes, all accessories and UPS with batteries.

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Sl. No. 5**~~Low End~~ Colour Doppler Machine**

The system should be latest fully Digital Color Doppler Ultrasound System and can be used for applications like Abdominal, Obs. / Gynae, small parts, Endocavitary, Pediatric & vascular applications. The system should have following essential features:

1. The system should have the following image modes: 2D, M mode, PW, Tissue Harmonic mode, Color Doppler, Power Doppler mode.
2. The system should have minimum 1500 or more digital processing channels and 256 or more grey shades.
3. The system should have a very high dynamic range of 200dB or more and should be independently selectable in B & M mode.
4. The system should have a very high frame rate for B-mode & Colour mode. Maximum frame rate should be greater than 350 fps for B-mode & colour mode.
5. The system should be able to support all type of transducers (Convex, Endocavitary, Linear, Phased array and Intraoperative Transducers). Frequency range of all transducers should be 2-14Mhz.
6. The system should have Advanced measurement packages for all applications.
7. The system should have an integrated high resolution TFT/LCD of 19 inches or more with facility of tilt and swivel facility along with convenient grip.
8. The system should have minimum three active universal ports & two parking ports. Active ports can be directly selectable from the control panel.
9. The system should have scanning depth in the range of 2-30cms.
10. The system should have a very high capacity of Hard Disc Drive min. 80GB or 1000 images for storage of images.
11. The system should have inbuilt CD/DVD R/W and USB ports for image export.
12. The system should have zoom facility both in real time and frozen image modes.
13. The system should have Directional Power Doppler to define the low blood flow directions.
14. The system should have HD-flow/Advanced dynamic flow to acquire the blood flow with directions in the deeper region at a very high frame rate.
15. The system should have automatic optimization in B-mode and auto adjustment of Doppler base-line & velocity range.
16. The system should have B-mode image steering & Color Doppler steering.
17. The system should have the facility of on-screen adjustment for Dynamic range, Frequency selection, Presets, Name of the patient, etc.
18. The system should have the facility to view the Thumbnail images and system can be programmed for various users with the facility of user passwords.
19. The system should have the Trapezoid scan facility for linear probes.
20. The system should have Compound Imaging and Contrast Harmonic Imaging.
21. The system should be US-FDA or European CE approved product.
22. The system should have the facility of having direct image print out through a B/W thermal printer.
23. The system should have real time 3D (4D) package.
24. System should be offered with the following probes and accessories:
 - (a) Convex probe with frequency range of 3.0-6.0 Mhz.
 - (b) TV/TR probe with frequency range of 5.0-7.5 Mhz. And minimum field of view of 140 degree.
 - (c) Linear probe with frequency range of 6.0-11.0 Mhz.
 - (d) Volume Probe 4D – 1No.
 - (e) High frequency convex probe 5-8Mhz for pediatric/Neonatal application

(f) Jelly bottle -20nos.

Above mentioned probes must have multifrequency selection and THI.

25. Essential accessories: Black & White Thermal printer with 100 paper rolls and color laser printer with 500 sheets, Suitable UPS with one hour backup, mobile cart with transducer holder, jelly bottle holder and space for printer.
26. The bidder should enclose the original product data sheet, brochure and compliance sheet, without which the bid will be rejected. Computer generated data sheet and brochure will not be accepted. The serial number of specifications must be indicated against the relevant portion of the compliance sheet and data sheet.
27. Warranty & CMC should cover complete system, Probes, all accessories and UPS with batteries.

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Sl. No. 6

**Specifications for Flat Panel
Single plane Cardiac Cath-Lab along with accessories**

Latest state of the art, single plane floor/ceiling mounted C-arm/G-arm Cardiovascular Angiography system with flat detector technology digital imaging system for diagnostic procedures and interventional cardiovascular procedures, valvuloplasty and vascular Angiography, online DSA and cardiovascular electrophysiology.

1.0 C-Arm /G Arm Multi-directional floor/ceiling mounted

- 1.1 All movements should be motorized with C-Arm angulations of minimum RAO/LAO +110 deg. / -110 deg. CRAN/CAUD +45 deg. At head end position. With 20 deg. / sec. or more speed for LAO/RAO and 15 deg./sec or more speed for CRAN/CAUD.
- 1.2 The system for user defined 50 programmed position of the C-arm.
- 1.3 Manual/motorized parking of C-Arm in case of catastrophe for resuscitating the patient
- 1.4 Motorized peripheral position for peripheral and vascular intervention should be available. It should be possible to position the C-arm on the left side as well as on the right side of the patient.
- 1.5 The C arm should have auto collision protection with patient, monitors and the table.
- 1.6. It should be possible to have head to Toe coverage without patient repositioning.

2.0 Table

- 2.1 Floating/Floor mounted with carbon fiber tabletop with easy patient transport capability
- 2.2 Accessories for table should include head fixing aids, mattress, radiolucent carbon fibre arm support, catheterization arm support for radial angiography, drip stand, peripheral filter set.
- 2.3 Maximum patient weight = 150 kgs or higher with additional weight for atleast 100 kgs during resuscitation
- 2.3 It should have rotating facility

3.0 X-Ray Generator:


- 3.1 100 KW or more compatible with high resolution imaging

4.0 X-Ray Tube:

- 4.1 X-Ray tube should be with fine focal spot (small & large) with high cooling rate to ensure continuous operation, capable of pulsed fluoroscopy on both focal spots. The large focus power output should be 80kW or more. The Pulse Fluoroscopy should be offered with pulse rate of 10 frame /sec to 30 frames/sec.
- 4.2 The X-Ray tube should have Anode heat storage capacity of at least 2.0 MHU or more to run continuously for 6-8 hours without shutting off.

5.0 Radiation protection:

- 5.1 The system should have integrated computer controlled (preferably automatic) X-Ray Beam filtering with copper filters of various size from 0.2 mm to 0.9 mm. Please list the special filters available.
- 5.2 The system should have positioning of collimator blades without radiation.
- 5.3 The system should have monitoring and display of X-ray dose during the patient examination. It should be possible to create a DICOM based dose report of the patient.
- 5.4 System should meet all National & International safety standards & comply with BARC & AERB guidelines.


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6.0 Digital imaging System:

- 6.1 A flat detector with a diagonal size of at least 24 cm. Please mention pixel size. The smaller pixel size will be preferred.
- 6.2 Digital system with acquisition and processing in 1024x1024 matrix at 25/30 fps with 10/12 bit digitization
- 6.3 Image storage capacity of at least 50,000 images in 1024 x 1024 matrix at 10/12 bits on the main system disk
- 6.4 System should have capability of ECG display on the live image monitor and archive the ECG display along with angio images on CD, during the acquisition.
- 6.5 System should have on-line & off-line validated coronary analysis and ventricle analysis program. The software should have Auto calibration facility for stenosis measurement with geometrical and densitometry calculations. The analysis should be possible from table side in the examination room and from the control room.
- 6.6 The system should have full table side control operation with complete acquisition and post processing capabilities.
- 6.7 The system should have on-line DSA capabilities in 1024 x 1024 matrix with acquisition frame rate of 1 frame/sec to 6 frames/sec.
- 6.8 The system should have facility for storage of fluoro loop scene of at least 10 seconds.
- 6.9 The system should be quoted with 3D modeling/analysis of coronary arteries.
- 6.10 The latest complete software and hardware for visualizing stent with extra high-resolution from table side control.
- 6.11 It should be possible to overlay live fluoro image on reference image on live monitor with fade in fade out.
- 6.12 Angle and distance measurement facility should be available
- 6.13 It should have parallel line display cum medical grade monitor in doctors' rooms

7.0 Monitors / Display:

- 7.1 The monitor display system in examination room should be ceiling suspended and it should be possible to position it on the left or right side of patient table. The monitor suspension system should have facility to place 6 monitors. The system should have six medical grade high resolution TFT/LCD at least 18 inch monitors to display live and reference images, one for patient hemodynamic monitoring, one for EP tracing, one for 3D image display and one for IVUS imaging .
- 7.2 Two high resolution TFT/LCD monitors for post-processing and reporting in the control room
- 7.3 One colour monitor for 3D image viewing/processing in control room.

8.0 Digital Archiving

- 8.1 FDA approved system for recording images on DVD/ CD-R with DICOM Viewer in DICOM 3 format
- 8.2 Image transfer from digital system in background mode without affecting the system operation.
- 8.3 USB interface to copy images to memory disk/external hard disk

9.0 3D Acquisition and Cross-Sectional Imaging :

- The 3D Acquisition should offer :
 - o 3D Reconstruction and visualization in real time of volume in volume rendering technique (VRT).
 - o MPR & MIP


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- It should be possible to create 3D image of left atrium of heart. It should be possible to overlay line fluoro image on this 3D image of left atrium for catheter guidance in EP procedure
- The facility should offer auto segmentation of ventricles / vessels of the entire heart (especially the left atrium with visualization of the pulmonary veins) in automatically performed one step

10.0 CATHLAB RECORDING SYSTEM

- 10.1 The following features should be available in the recorder
- 12 Lead ECG Amplifier with floating input
 - At least 2 pressures with floating inputs
 - Time and amplitude measurement with electronic calipers
 - Laser Printer with minimum 16 MB memory with minimum 1200 dpi
- 10.2 The patient connection box should be easy to install at the patient table in the examination room
- 10.3 18" color wave form monitor with programmable layout and digital monitoring readout – Two
- 10.4 A 18" remote colour wave form monitor, to be mounted in the examination room.
- 10.7 ECG cables and reusable pressure transducers - 2 each
- 10.8 Software should be provided for off line hemodynamic calculations such as cardiac output, gradients and shunt estimations.

11.0 State of art Intra aortic balloon pump (IABP) system: Imported model with following specification (1 No)

- A. Pneumatics Drive system: Compressor
Counter pulsation rate: 40-200 pulsations per minute
- B. In Automatic Mode of operation user should be in control of the deflation point. In Automatic mode Advance software should automatically adapt the timings for various rhythms and its variations, without any user intervention.
- C. Should be able to trigger on 7 mm Hg of Pulse pressure when used in Pressure Trigger mode.
- D. On screen indication of standby time and should give alarm after 15-30 minutes, to draw user's attention on the system being on standby.
- H. Should have Peripheral Vascular Doppler for detecting limb ischemia, which is attached to the main equipment.

Each System should be supplied with the following:

1. ECG cable with Refillable Helium cylinder compatible with the IABP system Qty: 3 Nos
2. Intra Aortic Balloon Catheter for Adults, Size: 40 cc Qty : 2 Nos
3. Intra Aortic Balloon Catheter for Adults, Size: 30 cc Qty : 2 Nos
4. Intra Aortic Balloon Catheter for Pediatrics, Size: 12 cc Qty : 2 No
5. Intra Aortic Balloon Catheter for Pediatrics, Size: 10 cc Qty : 2 No
6. Reusable Invasive Blood pressure transducer system with pressure flush device system. Qty : 2 Nos

12.0 Biphasic Defibrillator cum monitor.

Three of approved and reputed make - Two of these for the intervention room and one for the recovery room. One of them should have external pacing facility.

13.0 ACT machine- One no. with one set of Cartridge

14.0 Anesthesia machine- one

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15.0 UPS: Suitable online UPS with 30 min. battery backup for complete Cath Lab including cine and fluoroscopy. Emergency lighting should also be on UPS

16.0 ACCESSORIES to be supplied:

- A. State of the art High Pressure Injector – One
- B. Ceiling suspended radiation protection - 1 no. (as per international radiation protection system)
- C. Table mounted radiation protection - 1 no. (as per international radiation protection system)
- D. Integrated two way communication system between control room and examination room.
- E. One Laser Network Printer of high resolution (at least 1200 dots per inch) with minimum 128MB memory and 1200 dpi should also be offered for high quality image printing.

17.0 Environmental factors

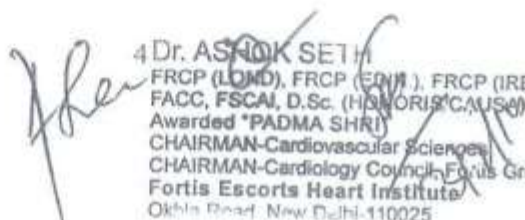
- A. The unit shall be capable of being stored continuously in ambient temperature of 0 – 50 deg C and relative humidity of 15-90%
- B. Should meet General Requirements of Safety for Electromagnetic Compatibility.
- C.
 - 1. The chosen supplier would be asked to undertake a turnkey Project wherein necessary civil work modifications like False Ceiling, Wall Tiling, Anti Static Flooring and finishing works would be provided by them under the supervision of the support staff e.g. CPWD(Civil)/electrical etc.
 - 2. The supplier would also provide the Scrub area and the Catheter wash area.
 - 3. The supplier also would provide the necessary furniture like tables, computer chairs, cupboards, catheter hang wall mounts etc.
- D.
 - 1. Appropriate Air-conditioning would be provided by the supplier and maintained throughout the Warranty period of the cath-lab.
 - 2. The entire Cath-Lab including the Air Conditioning should be connected to the Generator of the hospital.
- E. Proper shielding should have to be done by the supplier to minimize radiation leakage as per AERB and BARC regulations.

18. Power Supply

- A. Power input to be 220-240VAC (Single Phase), /400-440 V (3 Phase)/ 50Hz as appropriate fitted with Indian plug
- B. Reset table over current breaker shall be fitted for protection
- D. Online UPS of suitable rating conforming to shall be supplied for the entire cath lab system including X-ray generation with a minimum power back up of
- E. The Power requirements involve laying a 125 KVA Cable from the substation to the Cath-Lab and making a Bus-Bar and a Power Distribution Board and this would be done by the supplier as a turnkey project under the supervision of the support staffs e.g. PWD (Elect)

19.0 SITE MODIFICATION

- a. The necessary site modifications with interiors will have to be done by the supplier
- b. Six steel cupboards to store linen, Catheter storage, consumables, medicines should be provided.
- c. Facility for storage of CDs & DVDs and cath lab hard wires to be provided.


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- d. Whole Cath Lab complex should be centrally air conditioned
- e. Other minor issues like voltage fluctuations, cooling, pest control and rodent control is to be taken care of by the cath lab supplier.
- f. Site layout /plan to be discussed with department and layout/plan copy approved by department to be used
- g. Supplier has to state the schedule for site modification and installation of cathlab system and all accessories

20.0 Warranty

- a. Comprehensive warranty for 5 years for the complete system and third party item including x-ray tube, Electrophysiology system Intra aortic balloon pump(IABP) system and other supplied accessories like ACT machine, High Pressure Injector, anaesthesia machine etc
- b. All steps to be taken to maintain 95% uptime time of the Equipment failing which penalty clause would be imposed.

21. Standards, Safety and Training

- A. Cathlab and each accessory: Should be FDA/CE/Indian regulatory body approved product
- B. Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements
- C. Manufacturer should have ISO certification for quality standards.
- D. Shall comply with AERB and BARC guidelines.

22.0 Documentation

- A. User manual in English
- B. Service manual in English
- C. List of important spare parts and accessories with their part number and costing
- D. Certificate of Calibration and inspection from the factory
- E. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
- F. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service /technical manual.
- G. User List and performance certificate of at least 5 cath labs installation in the past five years from government institutions should be submitted along with the techno – commercial bid.


23. Other requirements

- A. Model should be latest generation.
- B. Should have local service facility.
- C. comprehensive warranty of the main cath lab system and third party items for 5 years and AMC/CMC of the main cath lab system and third party items for next five years to be provided by the cath lab unit supplier
- D. Availability of spares to be ensured for minimum 10 years period
- E. The company should provide LAN facility that will provide online as well as off line analysis of cathlab procedure from other cathlab and from office rooms of three consultants


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**ANNEXURE-I SITE MODIFICATION TURNKEY PROJECT
FLAT PANEL SIGNLE PLANE CARDIAC CATH-LAB ALONG WITH ACCESSORIES**

1.	Supplier would undertake a Turnkey Project for site modification and installation of Cath Lab as per AERB/BARC regulations after AERB/BARC and/or other concerned authority's approval. A typical layout plan (with dimensions) showing the placement of all specified hardware, including camera, consoles, data processing workstation, collimator, cart(s) and any imaging table(s) and rails along with details of computer furniture, conduiting and earthing etc. would have to be provided to the hospital/appropriate authority and approval taken before starting the modifications/renovations.
Civil work: In the civil work following works are to be undertaken	
2.	Modifications / Renovations in the existing rooms will be done by the vendor as shown in the layout plan after approval by the Atomic Energy Regulatory Board (AERB).
3.	The walls of whole Cath Lab Complex should be finished acrylic/plastic emulsion and should be finished with tiles (of Kajaria/Johnson/Naveen) up to five feet height.
4.	The flooring in the Cath Lab complex should be as per AERB regulations. Flooring in all rooms and corridor shall be of vitrified tiles of 60 x 60cm size or other close appropriate size of reputed make like Kajaria/Johnson/Naveen
5.	Whole area of Cath Lab Complex as in the layout plan approved by the AERB shall be finished with fire resistant zypcian false ceiling (material used should be of ISI/BIS mark).
6.	All the doors should be provided with necessary fittings with hydraulic type door closures (DORMA/ reputed make) and with Mortised locks of Godrej / reputed make.
7.	Main door of the Cath Lab complex in the corridor shall be in glazed aluminum with adequate thickness of glass with etching work wherever required. Lead Glass window of adequate size will be fixed as per AERB guidelines in the console room. Proper signage both external and internal.
Plumbing work has to be carried out as per requirement for scrub area and other areas.	
8.	The pipes and accessories should be of centrifugally cast iron of ISI make and the connection of existing main hole in the public health shafts shall be done. All water pipes shall be Galvanized iron of TATA equivalent make and filling shall be SUW/UF/UNIK make. The grating shall be chrome plated. All CP fittings shall be of EBONY / Jaguar/ ESSCO.
Electrical work: The firm is required to specify load requirement i.e. required for the unit, the air conditioning, room lighting and for the accessories, if any. The electrical works/accessories should be conforming to ISI/BIS standards and material should be ISI/BIS mark. The electrical works should have:	
9.	Minimum two separate Earthing with copper plate is to be provided for the main equipment and air-conditioning equipment as per equipment requirements. The use of earth leakage circuit breaker will be required.
10.	A distribution panel of standard make and appropriate capacity is to be provided. The load shall be provided by the hospital. However, from the substation of the hospital to the distribution panel, cable of appropriate size will have to be provided and fixed be the vendor.


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11.	The switch gears (MCBs / ACBs/ MCCBs) should be of Siemens / Hager (L&T) make
12.	L.T. distribution board for MCBs etc. should be of Siemens/ Hager (L&T) make.
13.	Electrical wires should be of copper of different capacity as per the load and should be of Finolex/Havells/Polycab/L&T/Lapp Kabel make.
14.	Telephone wiring cables should be of Finolex / Havells/ Polycab make. Telephones to be provided in all rooms with EPBX system having control in office.
15.	Modular range Switches / Sockets of MK/ North West should be provided and fixed as per requirement.
16.	General lights should be of mirror optic reflector type of Phillips/Wipro/GE/Crompton make. Light dimmers (down lighters) should also be fixed in the equipment room.
17.	Ceiling fans/ wall fans to be provided in corridor and in all rooms.
18.	Steel conduit of BEC/AKG makes and conduit accessories of RAMA/Fitwell make.
19.	Air conditioning: Split Air conditions of reputed make Blue star/carrier/LG/Samsung/General to be provided by the vendor in whole complex as per requirements (to maintain appropriate temperature in the main equipment room & other rooms) and as per regulations of AERB. Standby additional split air condition(s) of appropriate strength/capacity (tonnage) to be fixed in the main equipment room. Hygrometer Nos.3 to be provided. In-built or External De Humidifier in Equipment, Console and Examination rooms to be provided as per room layout.
	Fire Protection
20.	Non water based fire protection is to be integrated as per requirement. Fire extinguishers of appropriate types conforming to ISI/BIS mark should be fixed in different rooms as per requirement. Heat detectors/hooters/photoelectric/smoke detectors of ISI/BIS mark shall be provided in all the rooms and corridors as per requirements. In case the expiry date of fire extinguishers is before the completion of 5 years comprehensive warranty period, extra set(s) of fire extinguishers will be supplied by the vendor till the completion of the 5 years comprehensive warranty period. The vendor to also install the following:
21.	Audio visual Music systems for patient waiting areas.
22.	Ultrasonic Pest& insect repellents to be provided and installed.
23.	Music and Public Address system for calling/informing the patients in waiting areas.
24.	Storage cupboards made of wood/ply board to be fixed in different rooms as per requirement stated by department at time of installation.
25.	As per requirement furniture and fixtures for all the area including chairs of Godrej/Durian reputed make should be provided.
26.	Furniture and other items, mentioned as of reputed make, will need approval of the department.
27.	Defect liability: The works shall be guaranteed for a minimum period of 5 years from the date of commissioning against any defective material/workmanship. The warranty and CMC of the Air conditioners will form part of the main equipment. The turnkey work including installation / commissioning of all the turnkey items should be completed within 3 months.
28.	Certification to the effect that the work has been executed as per the specifications.




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Sl. No. 7

DEPARTMENT OF GASTROENTEROLOGY

Technical Specifications of Endoscope System

The endoscope system must be suitable for high resolution, high magnification images of GI tract with ability to detect early cancers and pre-neoplastic lesions by optical enhancement of images. The system must have the facility to provide images with optical chromoendoscopy. The system should consist of the following individual items :

1. Side viewing endoscope -

Working length	-	1200 – 1400 mm
Field of view	-	90° - 110°
Outer diameter of insertion tube	-	<12 mm
Bending capability :		
UP	-	> 110°
DOWN	-	>90°
RIGHT	-	> 100°
LEFT	-	90° or more
Channel diameter		Minimum 4.2 mm

- It should preferably have a locking mechanism for holding guide wires during ERCP
- It should be compatible with a processor capable of optical chromoendoscopy such as NBI, FICE etc.
- It should provide high resolution vision.
- Standard accessories including biopsy forceps, cleaning brush.
 - i. 2 extra suction and air water channel valves.
 - ii. 10 Packets of Biopsy valve

2. UGI Ultrathin endoscope -

Viewing Direction	-	Forward
Field of View	-	100° - 140° mm
Distal end diameter	-	< 6 mm
Flexible portion diameter	-	< 6 mm
Bending capability :		
UP	-	>180°
DOWN	-	90° or more
RIGHT	-	> 100°
LEFT	-	> 100°
Forceps channel diameter	-	2mm or more
Working length	-	1000 -1200 mm
Total length	-	1200 – 1500 mm

- The endoscope should be compatible with a processor capable of optical chromoendoscopy such as NBI, FICE, I-scan etc.
- It should provide high resolution vision.


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Standard accessories

- i. 2 extra suction and air water channel valves.
- ii. 10 Packets of Biopsy valve.

3. Colonoscope - One in number

Working length : 1500 – 1800 mm
Outer diameter : < 14 mm
Channel size : 3.5 – 4.0 mm
Minimum distance at which image can be focused : 1.5-3 mm
Field of view : 140° or more
Angulations of the bending tip : Up - 160-180°, Down - 160-180°
Right - 150-180°, Left - 150-180°

- The colonoscopy should provide high resolution images with facility for mucosal and vessel enhancement.
- The colonoscope should have a facility of external monitoring to show the position of the endoscope during the procedure without the need for fluoroscopy.
- It should preferably have a mechanism for variable stiffness.
- Additional water jet for mucosal cleansing.

Standard accessories

- i. 2 extra suction and air water channel valves.
- ii. 10 Packets of Biopsy valve


4. Video processor

A common compatible video processor for high resolution images which should be compatible with all the endoscopes as mentioned above. Should have capability to store patient data, recording of still images, facility to portable USB slot for image recording. Preferably should have a Picture in Picture mode. Must be compatible with high definition monitor.

5. Light Source : Xenon Lamp of 150 – 400 watts.
6. High definition LCD monitor to provide high resolution images – at least 24" in size
7. Compact Suitable Original Trolley

8. Accessories :-

- i. Leakage Tester – 01
- ii. 2 extra water bottles.
- iii. 2 Xenon Bulbs

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GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:

- a) Five years Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) from the date of installation, commissioning and Turnkey Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
- b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
- c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:

After sales service centre should be available at the city of Hospital/Institution/Medical College on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 8 hrs. The service should be provided directly by Tenderer/Indian Agent. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply.

3. Training:

On Site training to Doctors/ Technicians/ staff is to be provided by Principal/ Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the consignee.

4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Turnkey:

- a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) and Turnkey (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period
- b) The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- c) Cost of CMC will be added for Ranking/Evaluation purpose. The same will be taken at Net Present Value with a 10% discounting factor each year.
- d) The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.
- e) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- g) All software updates should be provided free of cost during CMC.
- h) Failure of the above [4. e) to 4. g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
- i) The payment of CMC will be made as stipulated in GCC Clause 21.

Turnkey:

Turnkey is indicated in the technical specification of the respective items, wherever required. The Tenderer shall examine the existing site where the equipment is to be installed, in consultation with HOD of Hospital/Institution/Medical College concerned. Turnkey details of each Hospital/Institution/Medical College are given at the end of Technical Specification. The Tenderer to quote prices indicating break-up of prices of the Machine and Turnkey Job of each Hospital/Institution/Medical College. The Turnkey costs may be quoted in Indian Rupee will be added for Ranking Purpose.

The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

The Turnkey Work should completely comply with AERB requirement, if any.

Note 1: Tenderer's attention is drawn to GIT clause 18 and GIT sub-clause 11.1 A (iii). The tenderer is to provide the required details, information, confirmations, etc. accordingly failing which it's tender is liable to be ignored.

Note 2: General: Bidders are requested to make sure that they should attach the list of equipment for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer/ Tester for Medical equipment to periodically check the electrical safety aspects as per BIS Safety Standards IS-13540 which is also equivalent to IEC electrical safety standard IEC-60601 is a part of the equipment. If the Electrical Safety Analyzer/Tester is not available they should provide a commitment to get the equipment checked for electrical safety compliance with Electronic Regional Test Labs / Electronics Test and Development Centres across the country on every preventive maintenance call.

Note 3: OPTIONAL ITEMS: Bidders are requested to quote for all the available options as asked in the bidding document with reasonable pricing. However the pricing for optional items will not be considered for price comparison for ranking purpose. If the firm has not quoted for any optional item (except the items of turnkey) their offer will be treated as TECHNICALLY RESPONSIVE if otherwise meeting the specification.

Note 4: Supplier should provide adequate training of personnel and supply only non-locked open software and standard interface interoperability conditions for networked equipment in hospital management information system (HMIS)

Note 5: Training shall be given to the doctors, nurses, operators with proper training material, adequate operating manual & preliminary troubleshooting.

Section – VIII

Quality Control Requirements

(Proforma for equipment and quality control employed by the manufacturer(s))

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

- 01 Name of the manufacturer
 - a. full postal address
 - b. full address of the premises
 - c. telegraphic address
 - d. telex number
 - e. telephone number
 - f. fax number

- 02 Plant and machinery details
- 03 Manufacturing process details
- 04 Monthly (single shift) production capacity of goods quoted for
 - a. normal
 - b. maximum

- 05 Total annual turn-over (value in Rupees)
- 06 Quality control arrangement details
 - a. for incoming materials and bought-out components
 - b. for process control
 - c. for final product evaluation
- 07 Test certificate held
 - a. . type test
 - b. . BIS/ISO certification
 - c. . any other
- 08 Details of staff
 - a. technical
 - b. skilled
 - c. unskilled

Signature and seal of the Tenderer

Section – IX

Qualification Criteria

1. The tenderer must be a manufacturer. In case the manufacturer does not quote directly, they may authorise their authorized agent as per proforma of Manufacturer authorization form as given in the tender enquiry document to quote and enter into a contractual obligation.
2. (a) The Manufacturer should have supplied and installed in last **Five** years from the date of Tender Opening, **at least 100% of the quoted quantity** of the similar equipment meeting major parameters of technical specification which is functioning satisfactorily anywhere in India. (For equipments which are consumable in nature, as identified in the list of requirement, proof of delivery/acceptance by consignee/purchaser shall also be considered acceptable)
2. (b) The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria 2 (a) should have executed **at least one contract in the last five years** from the date of tender opening of similar equipment meeting major parameters of technical specification which is functioning satisfactorily, anywhere in India **of the same manufacturer.**

Note:

1. The tenderer shall give an affidavit as per Section XIX of tender enquiry.
2. In support of 2 (a) & 2 (b), the Tenderer shall furnish Performance statement in the enclosed Proforma 'A'.

The manufacturer (Tenderer) / Indian Agent shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly notarized in the country of origin, alongwith the tender.

3. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.
4. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer's capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.
5. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.

PROFORMA 'A'
PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last five years)

Tender Reference No. : _____

Date of opening : _____

Time : _____

Name and address of the Tenderer : _____

Name and address of the manufacturer : _____

Order placed by (full address of Purchaser/Consignee)	Order number and date	Description and quantity of ordered goods and services	Value of order (Rs.)	Date of completion of Contract		Remarks indicating reasons for delay if any	Have the goods been functioning Satisfactorily (attach documentary proof)**
				As per contract	Actual		
1	2	3	4	5	6	7	8

We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.

Signature and seal of the Tenderer

**** The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished.**

Section – X
TENDER FORM

Date _____

To

Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector - 62, Noida -201307, Uttar Pradesh

Ref. Your TE document No. _____ dated _____

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. _____, dated _____ (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver _____ (Description of goods and services) in conformity with your above referred document for the sum mentioned in the price bid uploaded online, made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance as required in the GIT clause 20, read with modification, if any in Section - III – “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

(Signature with date)

(Name and designation) Duly authorised to sign tender for and on behalf of

SECTION – XI PRICE SCHEDULE**A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA**

1	2	3	4	5							6
Sl. No.	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)							Total Price (at Consignee Site) basis (Rs.) 4 x 5(g)
				Ex - factory/ Ex - warehouse /Ex-showroom /Off - the shelf (a)	Packing and Forwarding charges (b)	Excise Duty (if any) [%age & value] (c)	Sales Tax/ VAT(if any) [%age & value] (d)	Transportation, Insurance for a period including 3 months beyond date of delivery, loading/ unloading and Incidental costs till consignee's site (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (f)	Unit Price (at Consignee Site) basis (g) =a+b+c+d+e+f	

Total Tender price in Rupees: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C

Name _____

Business Address _____

Place: _____

Signature of Tenderer _____

Date: _____

Seal of the Tenderer _____

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5					6
Sl. No.	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Currency)					Total price on CIP Named Port of Destination + Insurance (local transportation and storage) 4X 5 (e)
				FOB price at port/ airport of Lading (a)	Freight & Insurance (port of loading to port of entry) and other Incidental costs (b)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (c)	Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery** (d)	Unit Price on CIP Named Port of Destination + Extended Insurance (local transportation and storage) (e) = a+b+c+d	

** To be paid in Indian Currency (Rs.)

Total Tender price in foreign currency: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C
3. The Tenderer will be fully responsible for the safe arrival of the goods at the named port of entry in good condition as per terms of CIP as per INCOTERMS, if applicable
4. Custom duty @ 11.76% and 2% C&F charges will be added to the CIP price to arrive at the DDP price for evaluation purpose.

Indian Agent:

Indian Agency Commission (included in FOB price) - ___% of FOB

Signature of Tenderer _____

Name _____

Business Address _____

Signature of Tenderer _____

Seal of the Tenderer _____

Place: _____

Date: _____

C) PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	3	4					5
Sl. No.	BRIEF DESCRIPTION OF GOODS	Qty. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 st	2 nd	3 rd	4 th	5 th	
			a	b	c	d	e	

* After completion of Warranty period

NOTE:-

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. Cost of CMC offered will be added (at a discounted rate of 10% per year) for Ranking/Evaluation purpose.
5. The payment of CMC will be made as per clause GCC clause 21.1 (D).
6. The uptime warranty will be 98% on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the TE document.
7. All software updates should be provided free of cost during CMC period.
8. The stipulations in Technical Specification will supersede above provisions
9. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Place: _____

Date: _____

Name _____
Business Address _____
Signature of Tenderer _____
Seal of the Tenderer _____

D) PRICE SCHEDULE FOR TURNKEY

Sl. No.	BRIEF TURNKEY DESCRIPTION OF GOODS	CONSIGNEE CODE	Turnkey price

Note: -

1. The cost of Turnkey as per Technical Specification (Section VII) may be quoted on lump sum along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
2. Cost of Turnkey will be added for Ranking/Evaluation purpose.
3. The payment of Turnkey will be made as per clause GCC clause 21.1 (c).
4. The stipulations in Technical Specification will supersede above provisions

Name _____

Business Address _____

Signature of Tenderer _____

Seal of the Tenderer _____

Place: _____

Date: _____

**SECTION – XII
QUESTIONNAIRE**

Fill up the Section XX – Check List for Tenderers and enclose with the Tender

1. The tenderer should furnish specific answers to all the questions/issues mentioned in the Checklist. In case a question/issue does not apply to a tenderer, the same should be answered with the remark “not applicable”.
2. Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.
3. In case a tenderer furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its tender will be liable to be ignored.

SECTION – XIII

BANK GUARANTEE FORM FOR EMD

Whereas _____ (hereinafter called the “Tenderer”) has submitted its quotation dated _____ for the supply of _____ (hereinafter called the “tender”) against the purchaser’s tender enquiry No. _____ Know all persons by these presents that we _____ of _____ (Hereinafter called the “Bank”) having our registered office at _____ are bound unto _____ (hereinafter called the “Purchaser) in the sum of _____ for which payment will 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 Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-

fails or refuses to furnish the performance security for the due performance of the contract or
fails or refuses to accept/execute the contract or
if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged

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 the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature with date of the authorised officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

SECTION – XIV

MANUFACTURER’S AUTHORISATION FORM

Head (P&CD),
HLL Lifecare Limited, Procurement and Consultancy Division
B-14 A, Sector -62, Noida -201307, Uttar Pradesh

Dear Sir,

Ref: Your TE document No _____ dated _____

We, _____ who are proven and reputable manufacturers of _____ (*name and description of the goods offered in the tender*) having factories at _____, hereby authorise Messrs _____ (*name and address of the agent*) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also state that we are not participating directly in this tender for the following reason(s):
_____ (*please provide reason here*).

We further confirm that no supplier or firm or individual other than Messrs. _____ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorised agent

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly”

Yours faithfully,

[*Signature with date, name and designation*]

for and on behalf of Messrs _____

[*Name & address of the manufacturers*]

- Note: 1. *This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.*
2. *Original letter may be sent.*

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

The Dean/ Director/ Medical Superintendent
(in the name of concerned Institution with its address)

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after 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 scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW 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 limits 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.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to 66 (sixty six) months from the date of Notification of Award i.e. up to ----- (indicate date)

.....
(Signature with date of the authorised officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

SECTION – XVI

CONTRACT FORM - A

CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS

(Address of the Purchaser's/Consignee's office issuing the contract)

Contract No _____ dated _____

This is in continuation to this office's Notification of Award No _____ dated _____

1. Name & address of the Supplier: _____
2. Purchaser's TE document No _____ dated _____ and subsequent Amendment No _____, dated _____ (if any), issued by the purchaser
3. Supplier's Tender No _____ dated _____ and subsequent communication(s) No _____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

- (i) General Conditions of Contract;
- (ii) Special Conditions of Contract;
- (iii) List of Requirements;
- (iv) Technical Specifications;
- (v) Quality Control Requirements;
- (vi) Tender Form furnished by the supplier;
- (vii) Price Schedule(s) furnished by the supplier in its tender;
- (viii) Manufacturers' Authorisation Form (if applicable for this tender);
- (ix) Purchaser's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – 'General Instructions to Tenderers' of the Purchaser's TE document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

- (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of goods/services	Accounting unit	Quantity to be supplied	Unit Price	Total price	Terms of delivery

Any other additional services (if applicable) and cost thereof: _____

Total value (in figure) _____ (In words) _____

- (ii) Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control
 - (a) Mode(s), stage(s) and place(s) of conducting inspections and tests.
 - (b) Designation and address of purchaser's inspecting officer
- (v) Destination and despatch instructions
- (vi) Consignee, including port consignee, if any

6. Warranty clause

7. Payment terms

8. Paying authority

**(Signature, name and address
of the Purchaser's/Consignee's authorised official)
For and on behalf of** _____

Received and accepted this contract

(Signature, name and address of the supplier's executive
duly authorised to sign on behalf of the supplier)

For and on behalf of _____

(Name and address of the supplier)

(Seal of the supplier)

Date: _____

Place: _____

CONTRACT FORM – B**CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT**

Annual CM Contract No. _____ dated _____
Between _____

(Address of Head of Hospital)
And _____

(Name & Address of the Supplier)

Ref: Contract No _____ dated _____ (Contract No. & date of Contract for supply, installation, commissioning, handing over, Trial run, Training of operators & warranty of goods)

In continuation to the above referred contract

2. The Contract of Annual Comprehensive Maintenance is hereby concluded as under:

1	2	3	4					5
Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 st	2 nd	3 rd	4 th	5 th	
			a	b	c	d	e	

Total value (in figure) _____ (In words) _____

- b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from _____ (date of expiry of Warranty) and will expire on _____ (date of expiry of CMC)
- c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, _____ & _____) and Turnkey (if any).
- d) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- f) All software updates should be provided free of cost during CMC.
- g) The bank guarantee valid till _____ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. _____ [(fill amount) equivalent to 2.5 % of the cost of the equipment as per contract] shall be furnished in the prescribed format given in

Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.

- h) If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs. _____ (equivalent to 2.5 % of the cost of the equipment as per contract) shall be payable to the Consignee.
- i) **Payment terms:** The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.
- j) **Paying authority:** _____ (name of the consignee i.e. Hospital authorised official)

(Signature, name and address
of Hospital authorised official)

For and on behalf of _____

Received and accepted this contract

(Signature, name and address of the supplier's executive
duly authorised to sign on behalf of the supplier)

For and on behalf of _____

(Name and address of the supplier)

(Seal of the supplier)

Date: _____

Place: _____

SECTION – XVII
CONSIGNEE RECEIPT CERTIFICATE
(To be given by consignee’s authorized representative)

The following store(s) has/have been received in good condition:

- 1) Contract No. & date : _____
- 2) Supplier’s Name : _____
- 3) Consignee’s Name & Address with telephone No. & Fax No. : _____
- 4) Name of the item supplied : _____
- 5) Quantity Supplied : _____
- 6) Date of Receipt by the Consignee : _____
- 7) Name and designation of Authorized Representative of Consignee : _____
- 8) Signature of Authorized Representative of Consignee with date : _____
- 9) Counter Signed by Director/MS/Dean of the concerned Hospital/Institute : _____
- 10) Seal of the Consignee : _____

SECTION – XVIII
Proforma of Final Acceptance Certificate by the Consignee

No _____

Date _____

To

M/s _____

Subject: Certificate of commissioning of equipment/plant.

This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good conditions along with all the standard and special accessories and a set of spares (subject to remarks in Para no.02) in accordance with the contract/technical specifications. The same has been installed and commissioned.

- (a) Contract No _____ dated _____
- (b) Description of the equipment(s)/plants: _____
- (c) Equipment(s)/ plant(s) nos.: _____
- (d) Quantity: _____
- (e) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no _____ dated _____
- (f) Name of the vessel/Transporters: _____
- (g) Name of the Consignee: _____
- (h) Date of commissioning and proving test: _____

Details of accessories/spares not yet supplied and recoveries to be made on that account.

Sl. No.	Description of Item	Quantity	Amount to be recovered

The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

The supplier has fulfilled its contractual obligations satisfactorily ## or

The supplier has failed to fulfil its contractual obligations with regard to the following:

- a) He has not adhered to the time schedule specified in the contract in dispatching the documents/ drawings pursuant to ‘Technical Specifications’.
- b) He has not supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the

period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

- c) The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is

The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.

The amount of recovery on account of failure of the supplier to meet his contractual obligations is _____ (here indicate the amount).

(Signature)

(Name)

(Designation with stamp)

(Counter Signed by Director/MS/Dean of the concerned Hospital/Institute)

Explanatory notes for filling up the certificate:

- i) He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.
- ii) He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
- iii) Training of personnel has been done by the supplier as specified in the contract.
- iv) In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

SECTION – XIX

AFFIDAVIT/UNDERTAKING

I/ We have read and understood the instructions and the terms and conditions contained in the document. I/We accordingly accept all terms and conditions of the tender enquiry document including the essential conditions specially incorporated in the tender enquiry like terms of terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law. I/ We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities. I/ We do hereby declare that the information furnished/ uploaded is correct to the best of my/our knowledge and belief.I/ We hereby certify thatthe prices offered by us in this tender is not higher than the prices we had offered to any other Govt. of India Organisation(s)/PSU(s) during the last one year and shall provide the justification for reasonableness of our offered price whenever asked during evaluation of our submitted bid. I/ We also hereby certify that if at any time, information furnished by us is proved to be false or incorrect; I/ We are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.

Date:

(Signature of the bidder)

NAME & ADDRESS OF THE BIDDER

NOTE: To be submitted on non-judicial stamp paper of Rs. 10/- duly certified by Public Notary

SECTION – XX

CHECKLIST

Sl No.	Description
1. a.	Have you enclosed EMD of required amount for the quoted schedules?
b.	In case EMD is furnished in the form of Bank Guarantee, has it been furnished as per Section XIII?
c.	In case Bank Guarantee is furnished, have you kept its validity of 165 days from Techno Commercial Tender Opening date as per clause 19 of GIT?
2.	Have you enclosed duly filled Tender Form as per format in Section X?
3.	Are you a SSI unit, if yes have you enclosed certificate of registration issued by Directorate of Industries/NSIC
4. a.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?
b.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?
5. a.	Have you submitted satisfactory performance certificate as per the Proforma for performance statement in Sec. IX of TE document in respect of all orders?
b.	Have you submitted copy of the order(s) and end user certificate?
6.	Have you submitted manufacturer's authorization as per Section XIV?
7.	Have you submitted prices of goods, turnkey (if any), CMC etc. in the Price Schedule as per Section XI?
8.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?
9. a.	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?
b.	In case of Foreign Tenderer, have you furnished Income Tax Account No. of your Indian Agent as allotted by the Income Tax Department of Government of India?
10.	Have you intimated the name and full address of your Banker (s) along with your Account Number
11.	Have you fully accepted payment terms as per TE document?
12.	Have you fully accepted delivery period as per TE document?
13.	Have you submitted the certificate of incorporation?

Sl No.	Description
14.	Have you accepted the warranty and CMC as per TE document?
15.	Have you accepted terms and conditions of TE document?
16.	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?
17	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?

N.B.

- (i) The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender.
- (ii) It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

Section – XXI**Consignee**

Consignee Code	Medical Institutions	Contact Address.	AirPort	Sea Port / Dry Port
JSSH	Janakpuri Super Speciality Hospital Society	The Director/Medical Superintendent Janakpuri Super Specialty Hospital Society C-2B, Janakpuri New Delhi – 58	NEW DELHI	NEW DELHI

NB: The consignee will ensure timely issue of NMIC, CDEC, Octroi Exemption Certificates, Road Permits & Entry Tax Exemption Certificates, wherever applicable, to the suppliers.